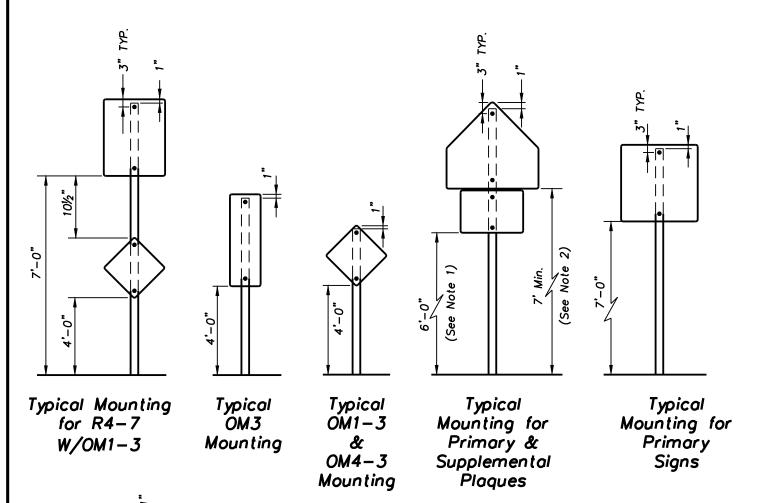
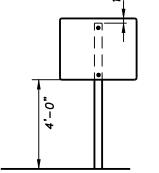
#### Permanent Signing General Notes

- 1. All permanent signing shall be provided and installed by the contractor as indicated in the plans and specifications, and according to the City of Overland Park Standard
- 2. All letter, number and symbol sizes, spacing and sign colors shall conform to the current Manual on Uniform Traffic Control Devices (MUTCD).
- 3. All school signing shall have a fluorescent yellow-green background with a black legend and border. All other warning signs shall have a standard yellow background.
- 4. The locations of existing utilities, if shown, are approximate only and have not been independently verified. The Contractor shall be responsible for contacting all utility companies for locations of all underground lines prior to excavation and be fully responsible for any and all damages, which might occur as a result of the Contractors failure to exactly locate and preserve any and all underground utilities.
- 5. The City of Overland Park is on the KS One Call System. The Contractor shall call 811 to obtain locates for streetlighting, traffic signal, and fiber optic conduits/cables. 6. All new signs shall be located within public right—of—way.
- 7. All retro-reflective micro-encapsulated prismatic sheeting shall be ASTM Type XI. All signs shall be made from a combination retro-reflective sheeting background with electronic cuttable film applied to the surface. (Unless otherwise indicated in the plans or specifications). Process color inks or silk screening signs are not allowed.
- 8. All sign blank material shall be made of 0.08" aluminum except all overhead street name signs shall be made of 0.125" aluminum.
- 9. Existing street name signs in the way of construction:
- The street name signs shall be relocated out of the way of construction but in a conspicuous location for the driving public and emergency providers. The street name signs shall be reinstalled in their proper location as soon as possible unless otherwise indicated. The removal and re-installation of existing signs will be considered subsidiary to other bid items.
- 10. Signs shown to be installed on the side of poles shall be mounted by stainless steel mounting bands as detailed in the plans. All R10 series signs installed on a traffic sianal mast arm shall be mounted with approved mounting brackets as specified. 11. All post mounted signs shall be mounted on break-away sign posts according to the
- 12. All signs and posts shown in the plans shall be new unless otherwise indicated in the plans or by the Traffic Service Inspector.
- 13. All existing regulatory signs, warning signs, and street name signs shall be used in place during construction and protected from damage unless otherwise indicated in the plans. If the contractor damages any existing sign or posts during construction, he shall be required to reinstall new signs and posts of the same type to replace the damaged equipment.
- 14. Any existing permanent signs shown to be removed by the contractor for construction purposes other than stop signs, yield signs or street name signs shall be salvaged. See Instructions for Disassembly and Return of Traffic Sign Equipment.
- 15. All stop, yield, warning signs, and street name signs shall be maintained in a conspicuous location for the driving public. All stop and yield signs removed for construction purposes can be temporarily erected (no less than 7 feet vertical from grade) until they can be permanently re-installed. Any temporary stop or yield sign installation to be left in place overnight will require prior approval from the Traffic Services Inspector.
- 16. All existing signs, other than stop, yield, warning signs, or street name signs, shown to be used in place shall be protected from damage by the contractor. The contractor may temporarily remove the sign and post to prevent damage at the approval of the inspector. Storage of the signs & posts is the responsibility of the contractor.
- 17. All sign posts installed in concrete, asphalt or brick paver islands or medians shall have a 6" PVC sleeve or 6" core drilled hole completely through the full depth of pavement to the top of subgrade. See Median Nose Details
- 18. The contractor shall be required to install inventory stickers on the back of all signs installed on the project and record each respective bar code number on the plan sheet adjacent to the corresponding sign, for delivery to the project inspector. Inventory stickers will be provided by the City.
- 19. Minor adjustments in the location of sign posts should be made in the field during construction in order to maintain 4"-0" clearance from the centerline of any fire hydrant to the face of the sign post.
- 20. In the event of utility conflicts with sign post locations and the sign post cannot be relocated, the contractor shall be required to hand dig the sign post and backfill with concrete to provide a sturdy post installation. The cost shall be subsidiary to other sign bid items.
- 21. The contractor shall flag sign locations for installation and shall not install signs until final location has been approved by the Engineer or Inspector
- 22. Break-away sign post anchors should be used for any sign installation requiring

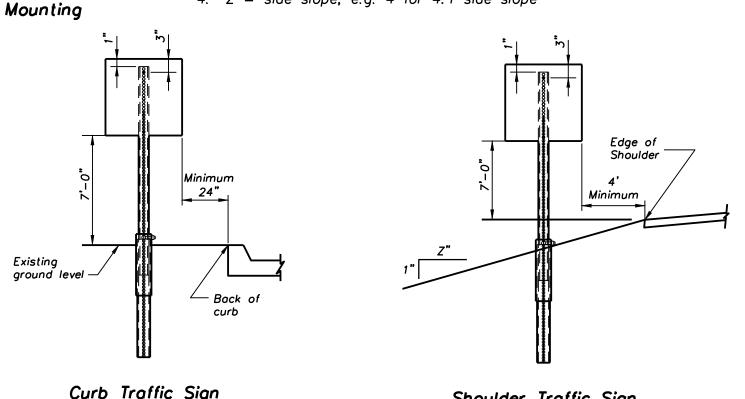




Typical R6-4 &

R6-4a

- 1. The height to the bottom of a supplemental plaque mounted below another sign when it is located in a pedestrian walkway, or extends more than 4" into a pedestrian walkway, shall be a minimum of 80" in compliance with the Americans with Disability Act (ADA).
- 2. If the supplemental plaque is less than 12" high, the height to the bottom of the primary sign should be a minimum of 7'-0".
- 3. All vertical installation dimensions are from the bottom of the sign to the top of curb or edge travel way as
- 4. Z = side slope, e.g. 4 for 4:1 side slope



# Instructions for Disassembly and Return of Traffic Sign Equipment

#### For Use on Federal Funded Projects

The following is a list of permanent signing equipment which shall be salvaged and stored on site for pickup by the City of Overland Park, unless otherwise instructed by the inspector. All salvaged equipment shall be carefully disassembled and stored. The condition at the time of City pickup shall be the same as prior to removal. The contractor shall notify the City of Overland Park Department of Public Works, Inventory Control Specialist (913) 327-6603 to arrange for the City pickup of the salvaged equipment. Provide 48-hours advance notice.

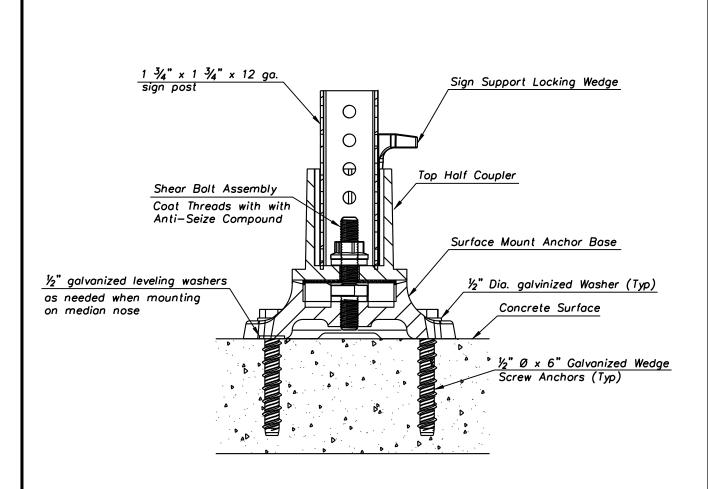
#### DELETE WHICHEVER NOTE DOES NOT APPLY TO THIS PROJECT

#### For Use on Non-Federally Funded Projects

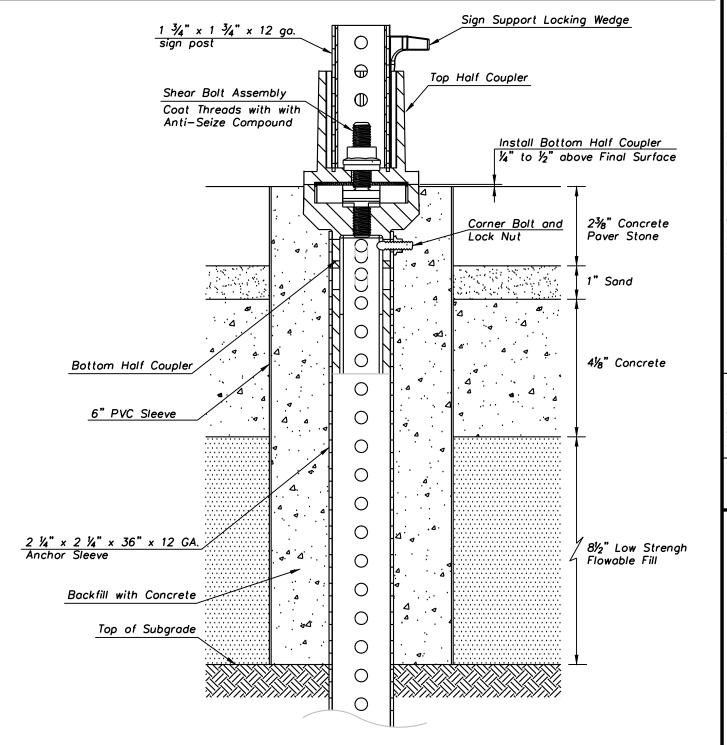
The following is a list of permanent signing equipment which shall be salvaged and returned to the City of Overland Park, unless otherwise instructed by the inspector. The condition at the time of delivery shall be the same as prior to removal. Disassembly of equipment shall be done prior to to returning the equipment to the Blue Valley Public Works Maintenance Facility (Traffic Services Maintenance Office and Shop) 6869 W. 153rd Street. The contractor shall notify the City of Overland Park Department of Public Works, Inventory Control Specialist (913) 327-6603 to arrange for the delivery of the salvaged equipment. Provide 48-hours advance notice.

The City maintains the first right of refusal of any equipment listed. The project inspector will make an on-site assessment to determine if the equipment should be salvaged or disposed. Any equipment that will not be salvaged shall become the property of the contractor.

- 1. All traffic signs shall be removed from sign posts, signal poles or street light poles and be salvaged.
- 2. All Astro-Brackets shall be removed from the tubular support. Do not cut the Astro-Bracket cable. 3. All traffic sign posts, shall be removed and salvaged unless bent. If the sign post or pole was mounted in concrete, the post or pole shall be discarded upon removal.
- 4. Any hardware (i.e. bolts, bandit material, etc.) involved in mounting the sign must be discarded.
- 5. All flashing beacon assemblies shall be salvaged, including solar panels, poles, cabinet and internal components. Solar panels and signs shall be removed removed prior to salvaging. Screw—in foundations shall be cleaned of dirt and debris and salvaged with bolt and anchor studs.



Break-Away Sign Post Anchor Detail (Concrete Surface Mount)



Break-Away Sign Post Anchor Detail (Concrete Paver Stone Median/Island Mount)

# Shoulder Traffic Sian Installation Detail Installation Detail

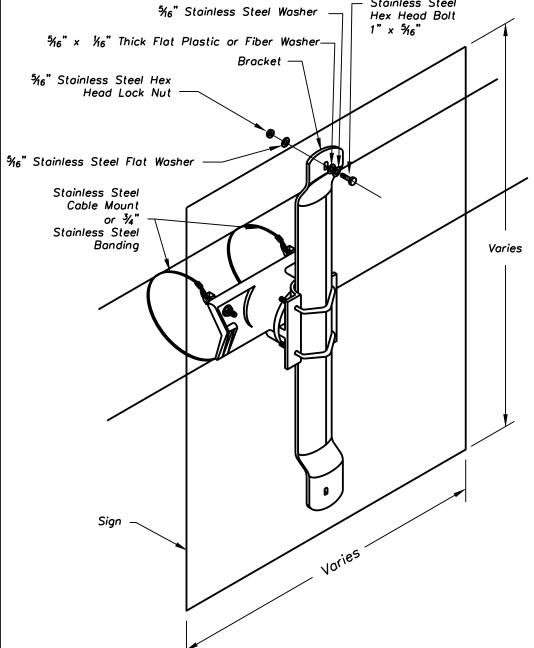
## Sign Mounting Details

# Street Light Pole ¾" steel stainless Flared leg bracket 3/6" x 3/4" stainless steel hex head bolt %6" stainless steel washer. 5/6" x 1/6" thick flat plastic or -Sign face -Flanged leg -bracket stainless steel band Steel buckle w/ear-lock design & teeth Details of $\frac{3}{4}$ " stainless steel bands for use in mounting street name signs on street light poles

#### Sign Mounting Detail (Vertical Pole)

#### <u>Notes:</u>

- 1. Signs on tubular supports shall be attached with two (2) brackets and stainless steel bands.
- 2. Holes in sign for attachment to the mounting brackets shall be offset a minimum of 2" from the edge of sign.
- 3. Holes in sign shall be located such that the sign is level.



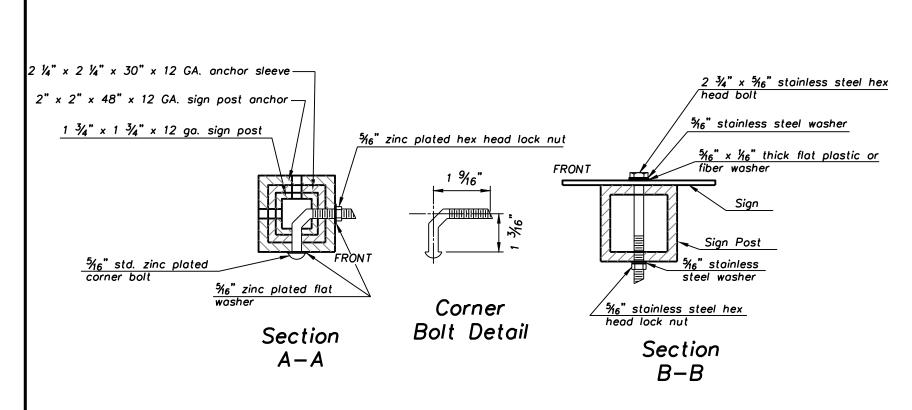
Sign Mounting Detail (Mast Arm) (Does not apply to overhead street name signs)

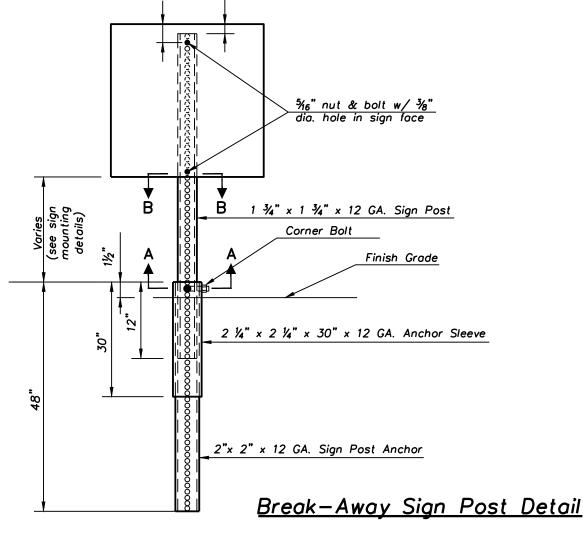
## Sign Post Installation Sequence

- Sign post anchor driven partially into subgrade using a drive cap with sledge or
- Anchor sleeve slipped over anchor and driven into subgrade together with the sign
- Insert sign post into the post anchor and bolt in place.
- For in-pavement installation, complete steps 1 & 2 prior to the placement of the pavement.

The first hole above the finished grade level in all three units must be in line for insertion of the corner bolt.

All corner bolts and nuts for fastening the signs and sign post assembly and all washers shall comply with appropriate sections of the standard specifications (latest edition) and shall be a subsidiary item.





SIGNING DETAILS GENERAL NOTES

CITY OF OVERLAND PARK PARTMENT OF PUBLIC WORKS

Notes: (1) Sample Post Length Calculation:  $\frac{(H1-S) + (H2+1) + (H3+1) + ... + 10.5}{12} + MH + \frac{4}{Z} + 0.02 \times W$  (Round to nearest 0.1 foot) CITY OF OVERLAND PARK DEPARTMENT OF PUBLIC WORKS \_Add only for a rural cross section with shoulder and side slope Permanent Signing Summary (1) Post Length (2) Post Anchor (3) Anchor Sleeve Conc. Surface 1¾"x1¾" (LF) 2"x2" (LF) 2¼"x2¼" (LF) Anchor (Ea) Area (S.F.) MEP Signs Paver Anchor Offset from 🖟 MUTCDSign Size Street Reference Station Comments Designation (Lt or Rt) and Sleeve (Ea)

Totals

MUTCD	Designation	Sign Sizes (W x H)	Sign Area	
Designation	Designation	Facing Traffic on Single Lane St or Approach	Facing Traffic on Multi-Lane St or Approach	Small/Large
	Object Marker Signs	20 mph ≤ V ≤ 55 mph	20 mph ≤ V ≤ 55 mph	(S.F.)
OM1-3	Object Marker (Type 1)	18" x 18"	18" x 18"	2.25
OM-3 (L or R)	Object Marker (Type 3) (Left or Right)	12" × 36"	12" x 36"	3.00
OM4-3	End of Road Marker	18" x 18"	18" × 18"	2.25

MUTCD		Sign Sizes (W x H) (1), (2), (3), (4)			Sign Area
Designation	Designation	Facing Traffic on Single Lane St or Approach	Facing Traffic on Mul	Facing Traffic on Multi-Lane St or Approach	
	Regulatory Marker Signs	20 mph ≤ V < 55 mph	V ≤ 35 mph	35 mph < V < 55 mph	(S.F.)
R1-1	Stop	30" × 30" (6)	36" x 36"	36" x 36"	5.18 / 7.46
R1-2	Yield	36" × 36" × 36"	36" x 36" x 36"	48" x 48" x 48"	3.90 / 6.93
R1-3P	All Way (Plaque)	18" x 6"	18" x 6"	18" x 6"	0.75
R1-5	Yield Here to Pedestrians	36" × 36"	36" × 36"	36" × 36"	9.00
R2-1	Speed Limit	24" × 30"	30" × 36"	30" x 36"	5.00 / 7.50
R3-1	No Right Turn (Symbol)	24" × 24"	24" x 24"	36" x 36"	4.00 / 9.00
R3-2	No Left Turn (Symbol)	24" × 24"	24" x 24"	36" x 36"	4.00 / 9.00
R3-4	No U-Turn (Symbol)	24" × 24"	24" x 24"	36" x 36"	4.00 / 9.00
R3-5 (L or R)	Overhead Lane Control Left (Right) Arrow	30" × 36"	30" × 36"	30" × 36"	7.50
R3-7 (L or R)	Left (Right) Lane Must Turn Left (Right)	30" × 30"	30" × 30"	36" × 36"	6.25 / 9.00
R3-8 (2-Lane)	Intersection Lane Control	30" × 30"	30" × 30"	30" × 30"	6.25
R3-8 (3-Lane)	Intersection Lane Control	48" × 30"	48" × 30"	48" x 30"	10.00
R3-8 (4-Lane)	Intersection Lane Control	66" × 30"	66" × 30"	66" x 30"	13.75
R3-9b	Two—Way Left Turn Only	24" × 36"	24" × 36"	24" x 36"	6.00
R4-7	Keep Right (Symbol)	24" × 30"	24" × 30"	24" x 30"	5.00
R5-7	Do Not Enter	30" × 30"	30" × 30"	36" × 36"	6.25 / 9.00
R5-1a	Wrong Way	36" × 24"	36" x 24"	42" x 30"	6.00 / 8.75
R5-2	No Trucks (Symbol)	24" × 24"	24" × 24"	24" x 24"	4.00
R6-1 (L or R)	One Way (Left or Right)	36" x 12"	36" x 12"	54" x 18"	3.00 / 6.75
R6-2 (L or R)	One Way (Left or Right)	24" × 30"	24" × 30"	30" x 36"	5.00 / 7.50
R6-4	Roundabout Directional (Single Lane)	30" × 24"	30" × 24"	30" x 24"	5.00
R6-4a	Roundabout Directional (Multi-Lane)	48" × 24"	48" x 24"	48" x 24"	8.00
R6-5P	Roundabout Circulation (Plaque)	30" × 30"	30" × 30"	30" x 30"	6.25
R7-108	No Parking (time)	12" × 18"	12" x 18"	12" x 18"	1.50
R7-8	Parking (handicap)	12" x 18"	12" x 18"	12" x 18"	1.50
R7-8P	Van Accesible Plaque	12" × 6"	12" x 6"	12" x 6"	0.50
R8-3 (B,R or L)	No Parking (Symbol) with Arrow	12" x 18"	12" x 18"	12" x 18"	1.50
R8-3bP	No Parking Plaque	6" x 12"	6" x 12"	6" x 12"	0.50
R10-3e	Countdown Pedestriam Pushbutton	9" x 15"	9" x 15"	9" x 15"	0.94
R10-11	No Turn on Red (Red Ball Symbol)	24" × 30"	24" × 30"	36" x 48"	5.00 / 12.00
R10-12	Left Turn on Green (Green Ball Symbol)	30" × 36"	30" × 36"	30" × 36"	7.50
R10-FYA	Left Turn Yield on Flashing Yellow Arrow	30" × 36"	30" × 36"	30" × 36"	7.50
R10-30	Right Turn on Red Must Yield to U-Turn	30" × 36"	30" × 36"	30" × 36"	7.50
R14-1	Truck Route	24" × 18"	24" x 18"	24" x 18"	3.00

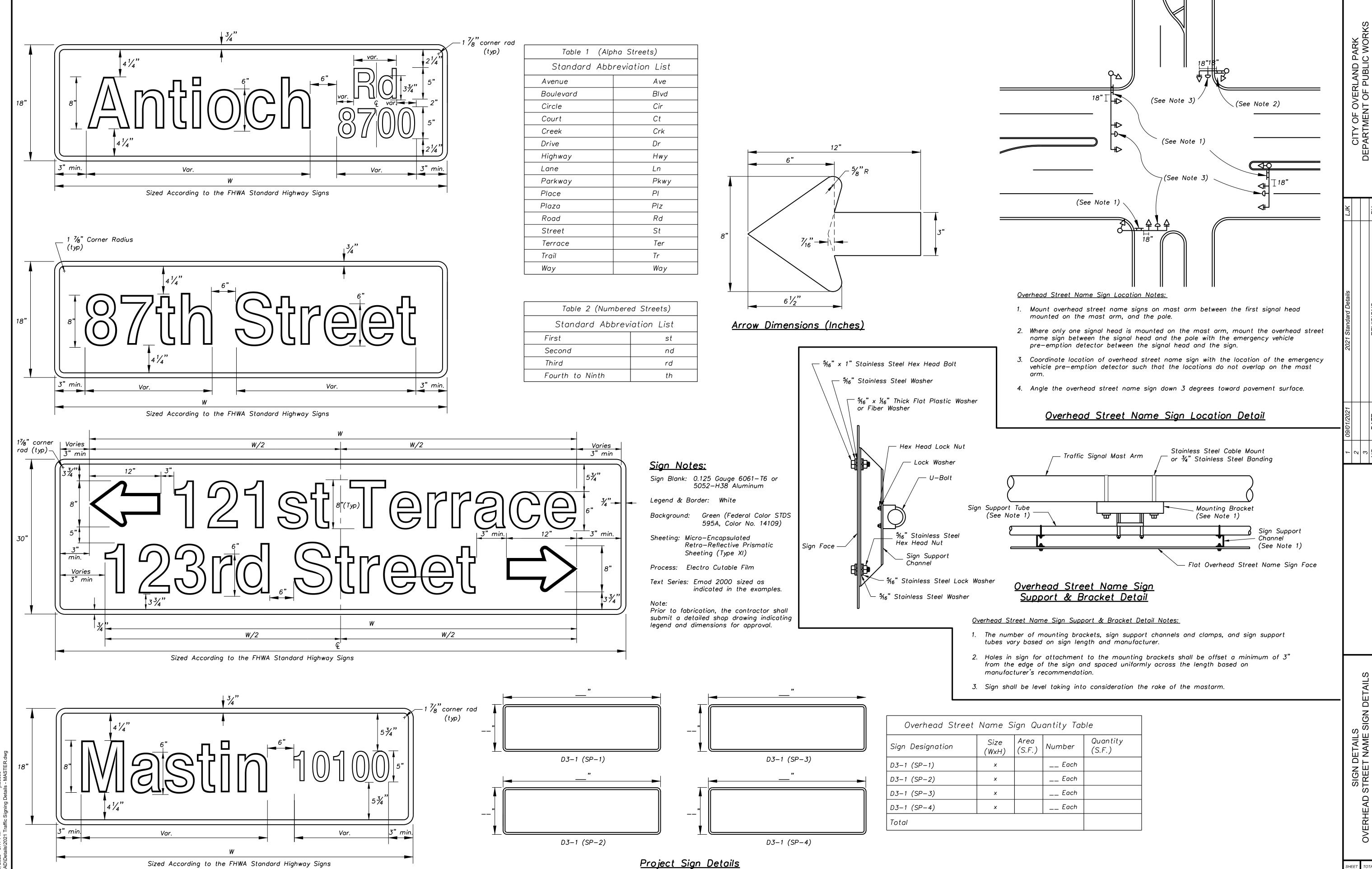
# Signing Notes:

- 1. All retro-reflective micro-encapsulated prismatic (MEP) background sheeting shall be ASTM Type XI.
  2. All signs shall be made from a combination retroreflective sheeting background with electronic cuttable film applied to the surface.
  3. Process color inks or silk screening signs are not allowed.
- 4. Sign sizes on roadways with posted speed limits 55 mph or greater shall be in accordance with the MUTCD sign tables for "Expressways" or "Oversized" in the case of School Zone signs.
- 5. All school warning signs and plaques shall have a fluorescent yellow—green background with a black legend and border.
- 6. If a side street intersects a multi-lane street with a speed limit of 45 mph or higher, use a 36" x 36" R1-1.

MUTCD		Sign Sizes (W x H) (1), (2), (3), (4)			Sign Area
Designation		Facing Traffic on Single Lane St or Approach	Facing Traffic on Multi-Lane St or Approach		Small / Large
	Warning Signs	20 mph ≤ V ≤ 55 mph	V ≤ 35 mph	35 mph < V < 55 mph	(S.F.)
W1-1 (L or R)	Turn (Left or Right)	30" × 30"	30" × 30"	36" × 36"	6.25 / 9.00
W1-1a (L or R)	Advance Turn (Left or Right)	36" × 36"	36" × 36"	36" x 36"	9.00
W1-2 (L or R)	Curve (Left or Right)	30" × 30"	30" x 30"	36" x 36"	6.25 / 9.00
W1-2a (L or R)	Advance Curve (Left or Right)	36" × 36"	36" × 36"	36" x 36"	9.00
W1-6 (L or R)	One Direction Arrow (Left or Right)	48" x 24"	48" × 24"	48" x 24"	8.00
W1 – 7	Two Direction Large Arrow	48" x 24"	48" x 24"	48" x 24"	8.00
W1-8 (L or R)	Chevron (Left or Right)	18" × 24"	18" x 24"	18" x 24"	3.00
W2-6	Circular Intersection	30" × 30"	30" x 30"	36" x 36"	6.25 / 9.00
W3-1	Stop Ahead	30" × 30"	30" x 30"	36" × 36"	6.25 / 9.00
W3-2	Yield Ahead	30" × 30"	30" x 30"	36" x 36"	6.25 / 9.00
W3-3	Signal Ahead	30" × 30"	30" × 30"	36" × 36"	6.25 / 9.00
W3-5	Speed Reduction	36" × 36"	36" x 36"	36" × 36"	9.00
W4-2 (L or R)	Lane Ends (Left or Right)	36" × 36"	36" x 36"	36" x 36"	9.00
W4-4P	Cross Traffic Does Not Stop Plaque	24" x 12"	24" x 12"	24" x 12"	2.00
W6-1	Divided Highway	36" × 36"	36" x 36"	36" × 36"	9.00
W6-2	Divided Highway Ends	36" × 36"	36" x 36"	36" x 36"	9.00
W6-3	Two-Way Traffic	36" × 36"	36" x 36"	36" x 36"	9.00
W9-1 (L or R)	Left (Right) Lane Ends	36" × 36"	36" x 36"	36" x 36"	9.00
W10-1	R.R. Advance Warning	36" Dia.	36" Dia.	36" Dia.	7.07
W9-2 (L or R)	Lane Ends Merge Left (Right)	36" × 36"	36" × 36"	36" x 36"	9.00
W11-2 (L or R)	Pedestrian Crossing (Left or Right)	30" × 30"	30" × 30"	36" x 36"	6.25 / 9.00
W11-8	Emergency Vehicle	30" × 30"	30" × 30"	36" x 36"	6.25 / 9.00
W11-12P	Emergency Signal Ahead Plaque	36" × 30"	36" × 30"	36" x 30"	7.50
W11-15 (L or R)	Pedestrian/Bicycle Crossing (Left or Right)	30" × 30"	30" × 30"	36" x 36"	6.25 / 9.00
W12-1	Double Down Arrow	30" × 30"	30" × 30"	36" x 36"	6.25 / 9.00
W12-2	Low Clearance	36" × 36"	36" x 36"	36" × 36"	9.00
W13-1P	Advisory Speed Plaque	18" x 18"	18" x 18"	18" x 18"	2.25
W14-2	No Outlet	30" × 30"	30" x 30"	36" x 36"	6.25 / 9.00
W14-2a (L or R)	No Outlet Plaque (Left or Right)	36" x 12"	36" x 12"	36" x 12"	3.00
W14-3	No Passing Zone	48" × 48" × 36"	48" x 48" x 36"	48" × 48" × 36"	5.56
W16-7P (L or R)	Diagonal Arrow Plaque (Left or Right)	24" x 12"	24" x 12"	24" x 12"	2.00
W16-9P	Ahead Plaque	24" x 12"	24" x 12"	24" x 12"	2.00
W16-12P	Traffic Circle Plaque	24" x 18"	24" x 18"	24" x 18"	3.00
W16-17P	Roundabout Plaque	24" x 12"	24" x 12"	24" x 12"	2.00

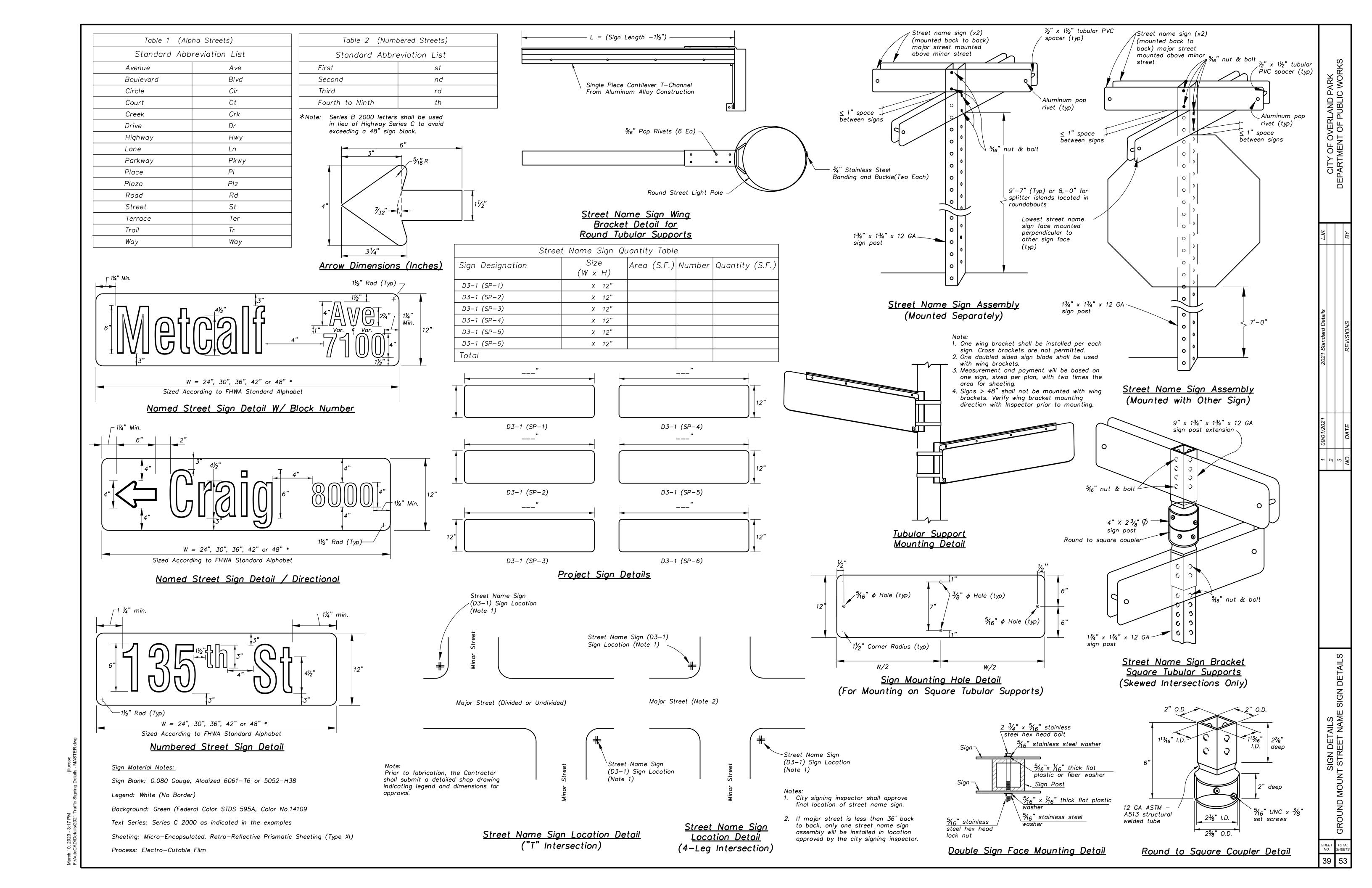
MUTCD	Sign Sizes (W x H) (1), (2), (3), (4)			Sign Area		
Designation		Facing Traffic on Single Lane St or Approach		Facing Traffic on Multi-Lane St or Approach	Small / Large	
	School Zone Signs (5)	V ≤ 30 mph	30 mph < V < 55 mph	20 mph ≤ V < 55 mph	(S.F.)	
S1-1 (L or R)	School (Left or Right)	30" × 30"	36" × 36"	36" × 36"	4.69 / 6.75	
S3-1	School Bus Stop Ahead	30" × 30"	36" × 36"	36" x 36"	6.25 / 9.00	
S4-5	Reduced School Speed limit Ahead	30" × 30"	36" × 36"	36" × 36"	6.25 / 9.00	
64-1P	Time Plaque	24" x 10"	24" × 10"	24" x 10"	1.67	
54-3P	School Plaque	24" x 8"	24" × 8"	24" × 8"	1.33	
S4-4P	When Flashing	24" x 10"	24" x 10"	24" x 10"	1.67	
S5-1	School Speed Limit XX When Flashing	24" x 48"	24" × 48"	24" x 48"	8.00	
S5-2	End School Zone	24" x 30"	24" × 30"	24" × 30"	5.00	
55-3	End School Speed Limit	24" x 30"	24" × 30"	24" × 30"	5.00	
W16-5P (L or R)	Turn Arrow (Left or Right)	24" x 12"	24" x 12"	24" x 12"	2.00	
W16-6P (L or R)	Advance Turn Arrow (Left or Right)	24" x 12"	24" x 12"	24" x 12"	2.00	
W16-7P (L or R)	Diagonal Arrow Plaque (Left or Right)	24" x 12"	24" x 12"	24" x 12"	2.00	
W16-9P	Ahead Plague	24" x 12"	24" x 12"	24" x 12"	2.00	

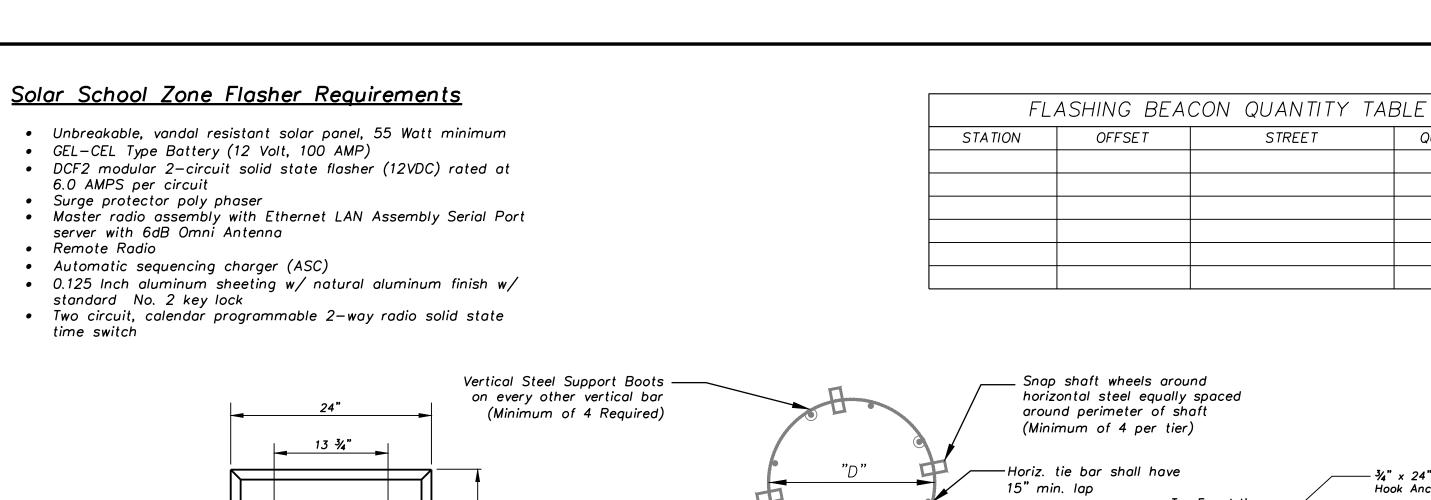
MUTCD Designation		Sign Sizes (W x H) (1), (2), (3)			Sign Area
		Facing Traffic on Single Lane St or Approach		Facing Traffic on Multi-Lane St or Approach	Small / Large
	Bicycle Facility Signs	V ≤ 30 mph	30 mph < V < 55 mph	20 mph ≤ V < 55 mph	(S.F.)
R3-17	Bike Lane	24" x 18"	24" × 18"	24" x 18"	3.00
R3-17aP	Ahead Plaque	24" x 8"	24" x 8"	24" x 8"	1.33
R3-17bP	Ends Plaque	24" x 8"	24" x 8"	24" x 8"	1.33
R3-17cP	Begins Plaque	24" x 8"	24" x 8"	24" x 8"	1.33

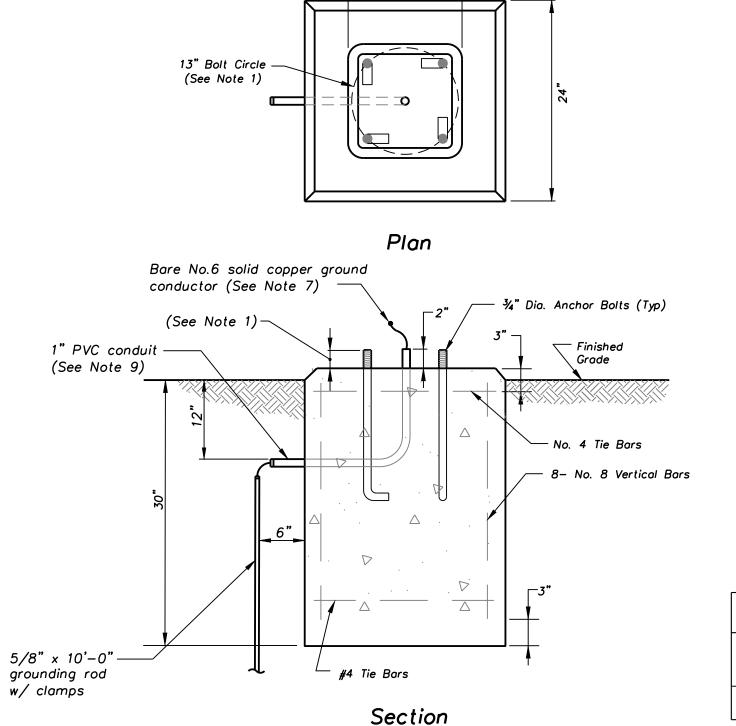


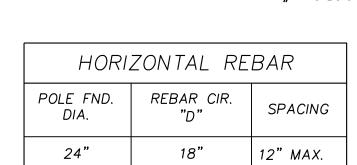
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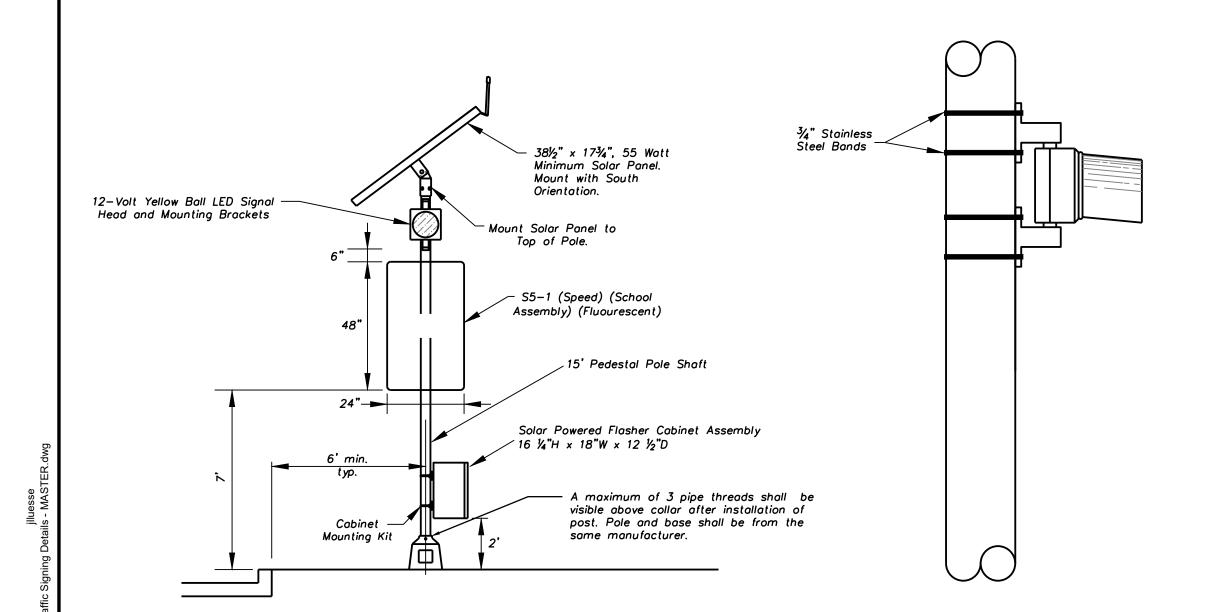


VERTICAL REBAR				
POLE FND. DEPTH	LENGTH "A"	Number of Shaft Wheels		
30"	24"	4		

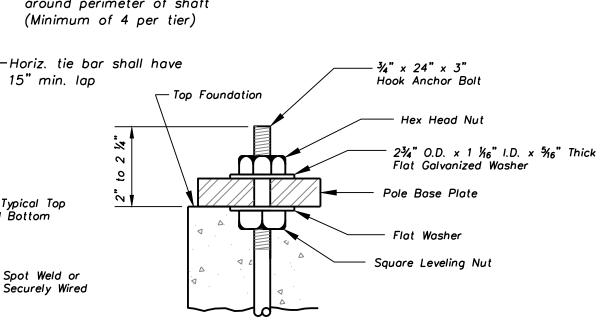
Pole Band and Clamp

Mounting Detail

Rebar Cage Detail <u>Pedestal Pole Base</u>



Aluminum Signal Pedestal Pole with Solar Panel



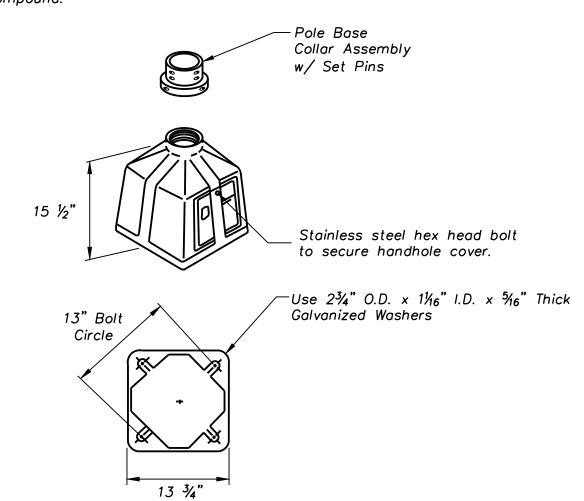
QUANTITY

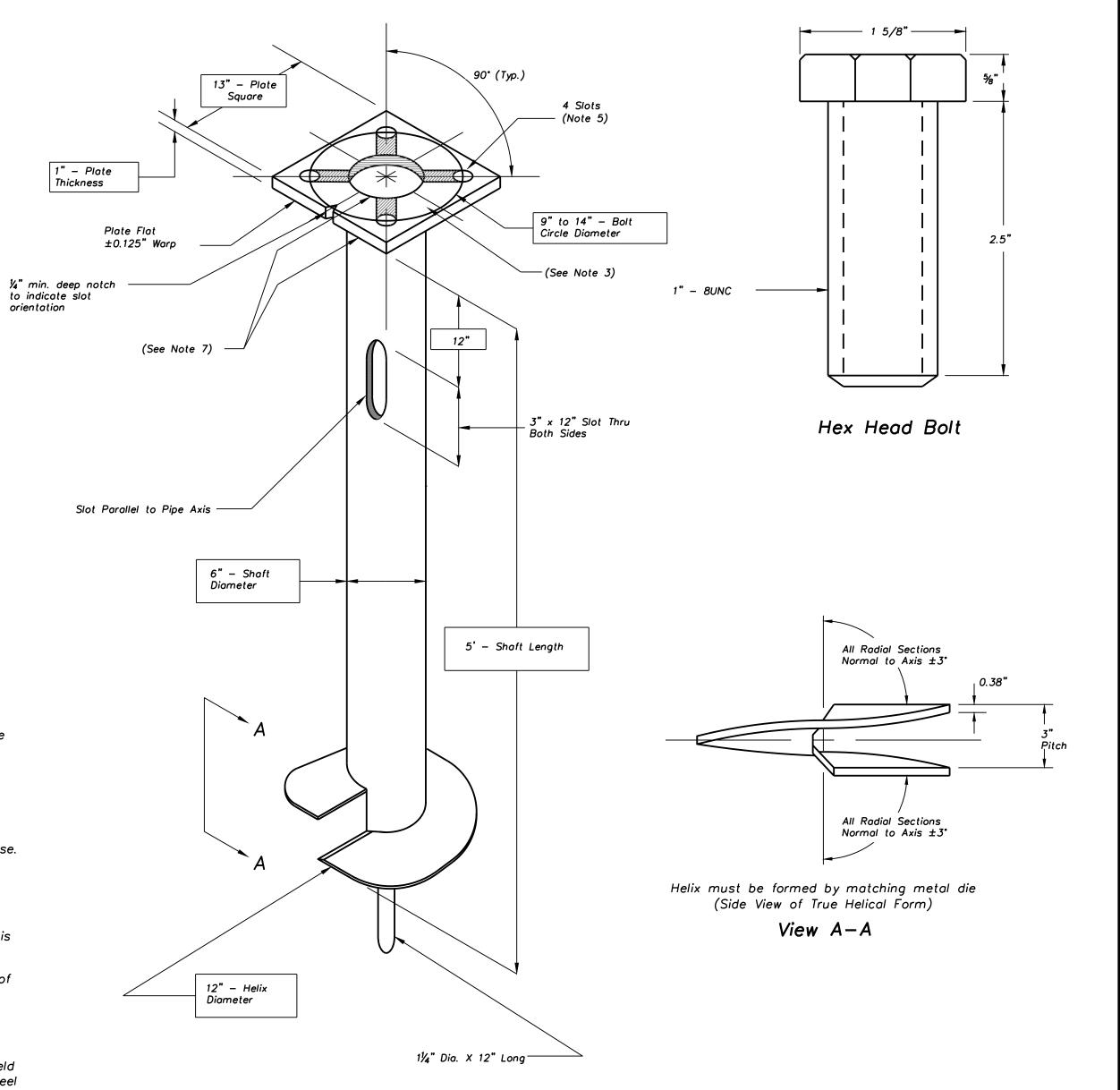
## Anchor Bolt Detail

#### <u>Pole Base Notes:</u>

\_\_ 3" Typical Top and Bottom

- 1. Final anchor bolt projection, and bolt circle shall be as indicated. Rotate anchor bolt to maintain minimum clearance from edge of hole. All anchor bolt threads and nut surfaces shall be lubricated prior to tightening with stick wax or approved alternative.
- 2. All anchor bolts for all the new pole bases shall be rigidly installed before concrete is placed. Anchor bolts shall be spaced by means of a factory certified template or drawing, the center of which shall coincide with the center of the base.
- 3. All concrete pole bases shall be consolidated by an internal type vibrator.
- 4. Final 6" of concrete foundation (pole cap) shall be formed square. The cap shall be formed and poured after the pole is
- 5. All concrete used in this work shall meet the requirements of the Overland Park Municipal Code and shall be KCMMB5K concrete (F'c = 5000 psi). Poles shall not be erected until concrete has reached 3500 psi, or seven days in lieu of concrete tests.
- 6. Reinforcing steel shall be ASTM A615 GR60 with a 60 ksi yield strength. Maintain 3" minimum clearance from reinforcing steel to edge of hole or form.
- 7. Bare No. 6 solid copper ground conductor shall be connected from the internal pole grounding nut, with a ring terminal, to the clamp on ground rod.
- 8. PVC conduit elbows in concrete foundations, ground rod, and ground cabling shall be considered subsidiary to the other
- 9. All concrete surfaces should be brushed and sealed with curing compound.





Alternate Screw-in Foundation Anchor Details

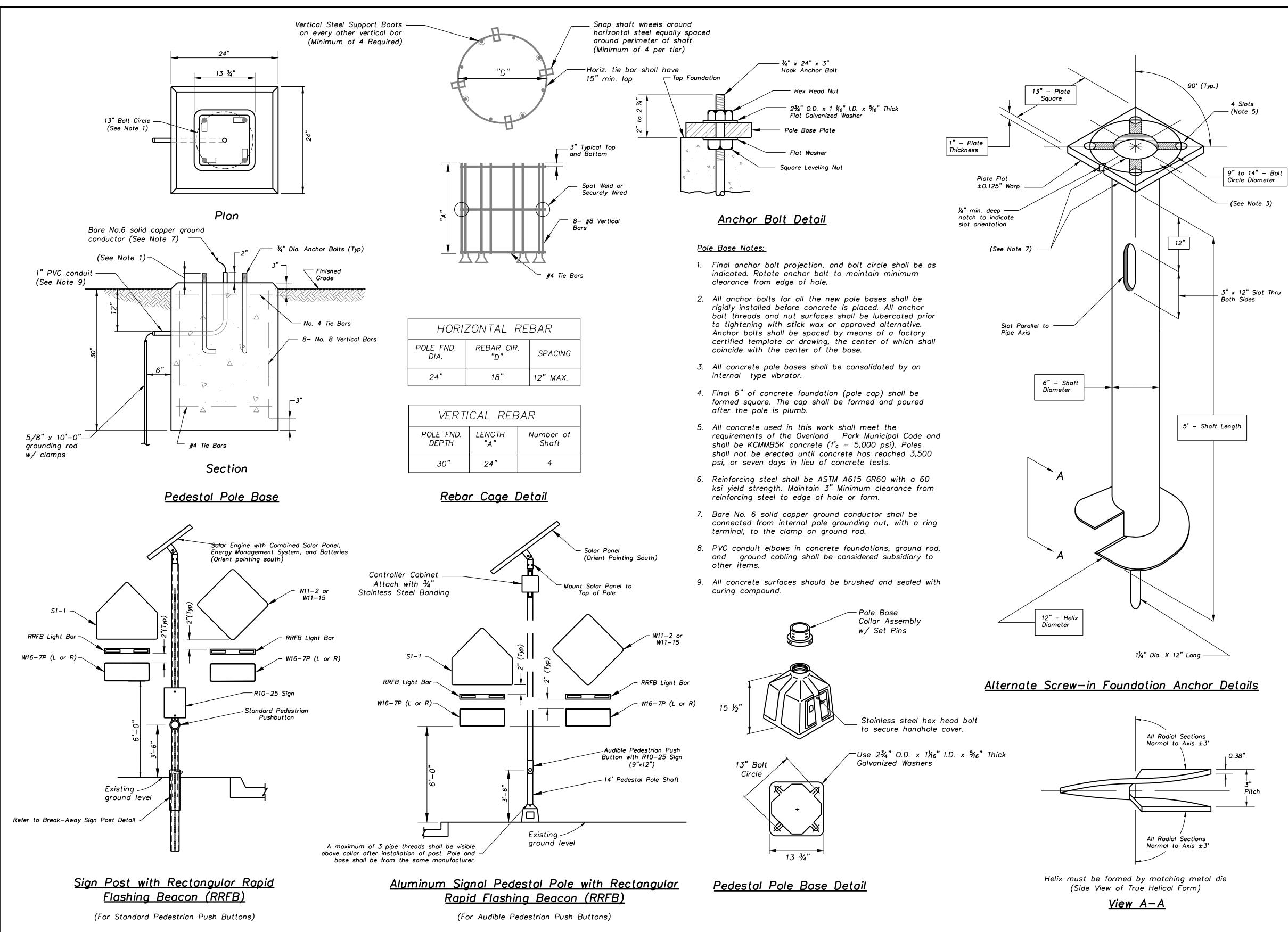
#### <u>Screw-in Foundation Notes:</u>

- 1. Hex head bolt shall be used with screw-in foundation. Contractor shall ensure bolt circle of pedestal pole base will match bolt circle of screw-in foundation.
- 2. Contractor shall ensure that earth around the base of the pole is thoroughly compacted prior to laying sod.

SIGN DETAILS SCHOOL BEACON

CITY OF OVERLAND ARTMENT OF PUBLI

<u>Pedestal Pole Base Detail</u>



POLE MOUNTED RRFB QUANTITY TABLE (1)(2)

STREET

DIRECTIONAL

UNI BI

OFFSET

STATION

SIGN POST MOUNTED RRFB QUANTITY TABLE (3)

STREET

DIRECTIONAL

UNI

OFFSET

STATION

## **Bill of Material Notes:**

- 1. Unless otherwise noted, the installation of Pole Mounted RRFB units shall be bid per Each for all necessary equipment including RRFB, control unit, controller cabinet, solar panel, 14' pedestal pole and base, foundation.
- 2. The RRFB cabinet shall be ordered with the audible pedestrian push button DC control unit pre-mounted.
- 3. Unless otherwise noted, the installation of Post mounted RRFB units shall be bid per Each for all necessary equipment including RRFB, solar engine with combined solar panel energy management system, batteries, sign post, anchor and sleeve.
- 4. Signs will be included in sign quantities.

CITY OF OVERLAND PARK ARTMENT OF PUBLIC WOF

2.5**"** 

—— 1 5/8" —

Hex Head Bolt

1. Hex head bolt shall be used with a screw-in foundation. Contractor shall ensure bolt circle of pedestal pole base

2. Contractor shall ensure that the earth around the base

of the pole is thoroughly compacted prior to laying sod.

will match bolt circle of screw-in foundation.

1" - 8 UNC ---

<u>Screw-in Foundation Notes:</u>

