

BENCH MARK
SEE COVER SHEET FOR APPROXIMATE LOCATIONS OF #08 BENCHMARK 909.584' CP #07 ELEVATION 918.916'

SURVEY NOTES
CONTROL POINT ON STATION ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR, VA ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THE REFERENCED DATUM ASSOCIATED TO ANY PARTICULAR CONTROL POINT. CONTRACTOR SHALL VERIFY THE DATUM OF A CONTROL POINT PRIOR TO USING IT. CONTRACTOR SHALL PROVIDE THE OWNER WITH CONTROL POINT DATUM COLLECTED AS PART OF THIS PROJECT.
DATUM: HORIZONTAL: IOWA NORTH NAD 83
VERTICAL: NAVD 88
CITY OF DES MOINES DATUM CONVERSION FOR ELEVATION = 773.936.

SIGNAGE
SIGNS SHALL CONFORM TO THE MOST CURRENT VA SIGN GUIDE.
PROPOSED: AS NOTED ON PLAN

UTILITIES
THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION OF ABOVE GRADE OBSERVED EVIDENCE AND/OR RECORDS OBTAINED. THE OWNER MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE OWNER FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE CONTRACTOR SHALL FIELD VERIFY ANY AND ALL EXISTING UTILITIES SHOWN TO BE WITHIN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION. NO COMPENSATION WILL BE DUE THE CONTRACTOR FOR ANY DAMAGE OR INTERRUPTION IN EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S WORK. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY AND THE UTILITY PUT BACK INTO SERVICE. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER.

GRADING NOTES

1. TAKE ALL NECESSARY MEASURES TO PROTECT AGAINST EROSION AND DUST POLLUTION ON AND AROUND THE PROJECT SITE TO INCLUDE ALL OFF-SITE BORROW AND SPILL AREAS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN-UP OF SEDIMENT AND DEBRIS TRACKED ON ROADS, SIDEWALKS, OR PAVEMENT OUTSIDE OF THE PROJECT AREA.
3. FOR ALL AREAS INDICATING PROPOSED CONSTRUCTION, REMOVE ALL ORGANIC MATERIAL TO A 1' MINIMUM DEPTH.
4. SPOT ELEVATIONS REPRESENT TOP FINISHED GRADE. TO = TOP OF CURB; GU = GUTTER.
5. PROOF ROLL THE EXPOSED SUBGRADE AND REPLACE WITH COMPACTED FILL TO BOTTOM OF CONCRETE DRIVEWAYS, PARKING, CURBS, WALKS AND BUILDING FLOOR ELEVATION.
6. NATIVE ORGANIC TOP SOILS MAY BE REUSED FOR COMMON (NOT STRUCTURAL) FILL AFTER THEY ARE SORTED TO REMOVE ALL DELETERIOUS MATERIALS SUCH AS CONCRETE, BRICKS AND OTHER RUBBLE. DELETERIOUS MATERIALS SHALL BE REMOVED FROM PROJECT SITE. ALL EXCESS SOIL AND OTHER MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
7. SUBGRADE FOR PAVEMENTS:
 - A. EXISTING SOILS ARE ASSUMED TO BE UNSUITABLE FOR SUBGRADE COMPACTION.
 - B. EXISTING SOILS SHALL BE REMOVED TO A DEPTH OF ONE FOOT BELOW THE PROPOSED SIDEWALK AND ONE FOOT OUTSIDE OF THE PROPOSED SIDEWALK EDGE.
 - C. SELECT BACKFILL WILL BE REQUIRED FOR IMPORT TO ACHIEVE PROPER COMPACTION.
 - D. THE UPPER 6-INCHES OF SIDEWALK SUBGRADE FILL SHALL BE SCARIED AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY. FILL PLACED BELOW THIS LEVEL SHALL BE COMPACTED TO A MINIMUM OF 95% LOW-PLASTICITY COHESIVE FILL SHALL BE COMPACTED AND MAINTAINED AT A WATER CONTENT WITHIN -2 TO +4% OF OPTIMUM.
 - E. STANDARD PROCTOR SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D698.
 - F. MODIFIED PROCTOR SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D1557.
 - G. REFER TO SUDAS FOR COMPACTION AND MOISTURE REQUIREMENTS.
 - H. CONTRACTOR SHALL PROVIDE COMPACTION REPORT TO OWNER PRIOR TO PLACING CONCRETE.
 - I. SHALL BE PROOF ROLLED AND CHECKED FOR SOFT SPOTS. ANY SOFT SPOTS FOUND SHALL HAVE UNACCEPTABLE MATERIAL REMOVED AND REPLACED WITH SELECT MATERIAL.
8. GRADE TO ENSURE POSITIVE DRAINAGE.
9. A MINIMUM OF 6-INCHES OF TOPSOIL SHALL BE PLACED ON ALL NON-PAVED DISTURBED SURFACES.
10. BACKFILL TO TOP OF CURB AND BACK OF WALK.
11. CONTRACTOR SHALL READ AND FOLLOW THE GEOTECHNICAL SOILS REPORT IF ONE IS PREPARED FOR THIS PROJECT.
12. ALL AREAS OUTSIDE OF THE CONSTRUCTION AREA DISTURBED AS PART OF THIS PROJECT SHALL BE RE-ESTABLISHED TO PRE-EXISTING CONDITIONS OR BETTER. A MINIMUM OF 4-INCHES OF ORGANIC TOP SOIL SHALL BE DOKED INTO THE AREAS TO BE RE-ESTABLISHED AND FINISHED WITH SEED AND MULCH AFTER GRADING OPERATIONS HAVE CEASED.
13. CONTRACTOR SHALL ATTEMPT TO ACHIEVE 5% ORGANIC MATTER IN SOILS ON SITE AFTER CONSTRUCTION IS COMPLETED THROUGH THE USE OF COMPOST OR TOPSOIL ADDITIONS.

CONSTRUCTION NOTES

- A. PAVEMENTS, PROVIDE THE FOLLOWING ON COMPACTED SUBGRADE:
 - a. 6-INCH CONCRETE SIDEWALK
 - b. COMPACTED SUBGRADE SHALL EXTEND TO A WIDTH OF 6-INCHES OUTSIDE OF SIDEWALK EDGES.
 - c. SEE GRADING NOTES FOR COMPACTION REQUIREMENTS.
 - d. WATER REDUCING ADMIXTURE SHALL BE ADDED TO ALL HAND PLACED AND FINISHED CONCRETE.
 - e. ALL CURB RAMPS SHALL INCLUDE THE PLACEMENT OF DETECTABLE WARNINGS.
2. PAVEMENT MARKINGS, PROVIDE THE FOLLOWING:
 - a. PAINTED CROSSWALK MARKINGS AS SHOWN ON PLANS.
 - b. PAINT 2' X 7' WHITE PEDESTRIAN CROSSING STRIPES SPACED AT 3' WITH GLASS BEADS OR OTHER ANTI-GLARE MEASURES.
 - c. REFER TO SPECIFICATION FOR SUBMITTAL REQUIREMENTS.
3. CONTRACTOR SHALL ENSURE THE ROAD IS KEPT OPEN AT ALL TIMES. CONTRACTOR SHALL MAINTAIN ACCESS TO THE DOCK, AMBULANCE ENTRANCE, AND ACCESS TO OTHER CONSTRUCTION PROJECTS ON STATION AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY OWNER A MINIMUM OF FIVE WORK DAYS PRIOR TO WORK BEING PERFORMED WHICH MAY ENCUMBER TRAFFIC THROUGH THE CONSTRUCTION AREA.
4. CONTRACTOR SHALL PROVIDE JOINT DETAIL TO OWNER FOR APPROVAL. MINIMUM JOINT REQUIREMENTS ARE AS FOLLOWS:
 - a. LONGITUDINAL CONSTRUCTION JOINT SHALL BE:
 - i. K-T-1 OR EQUAL
 - ii. TRANSVERSE CONSTRUCTION JOINT SHALL BE: C OR EQUAL
 - b. CONSTRUCTION AND EXPANSION JOINT SHALL BE: ED OR EQUAL W/ #8 SMOOTH DOWEL
 - c. ONE-HALF INCH CLOSED CELLULAR FOAM SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
 - d. ONE-INCH DEEP CONSTRUCTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 15-FEET OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
 - e. FORMED CONSTRUCTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" RADIUS.
 - f. SCORED JOINTS SHALL BE 1/4" DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF THE SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
 - g. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
 - h. 1/4" DEEP SCORED JOINTS (TYP) SPACED AT 6-FOOT OR EQUAL TO SIDEWALK WIDTH.
5. REFER TO GRADING PLAN FOR EROSION, SEDIMENT CONTROL, AND GRADING NOTES.
6. CONSTRUCT ALL SIDEWALKS WITH 2% MAX CROSS SLOPE UNLESS OTHERWISE SHOWN ON PLANS.

STORM WATER MANAGEMENT CONTROLS

1. STORM WATER MANAGEMENT CONTROLS ARE TO BE CONSTRUCTED TO PREVENT OR CONTROL POLLUTION OF STORM WATER AS PART OF THIS PROJECT.
2. STORM WATER MANAGEMENT CONTROLS ARE APPLICABLE TO THIS PROJECT.

LOCATION OF PROPOSED CONTROLS

1. LOCATE PROPOSED CONTROLS AS SHOWN ON PLAN.
2. ADD OTHER CONTROLS AS DEEMED NECESSARY BY SITE CONDITIONS, AS DIRECTED BY OWNER.
3. ANY AMENDMENTS MADE TO THE PROPOSED CONTROLS SHOULD BE INDICATED ON THE PLAN SITE MAP, AND DOCUMENTED WITH THIS PLAN.

SEQUENCE OF EROSION CONTROL AND SEDIMENT CONTROL EVENTS

1. CONTRACTOR SHALL PLACE AND MAINTAIN EROSION CONTROL DEVICES (I.E. SILT FENCE) AS REQUIRED TO CONTROL SOIL LOSS FROM SITE.
 - a. INSTALL SILT FENCE.
 - b. APPLY TEMPORARY SEED TO ALL DENuded AREAS. FERTILIZE AND LIME AS NEEDED. SPRING.
2. DESTROY TEMPORARY SEEDING.
3. APPLY RECOMMENDED PERMANENT SEEDING OR CONTACT YOUR LOCAL SOIL CONSERVATION SERVICE FOR ADDITIONAL MIXES: FERTILIZE AND LIME AT RECOMMENDED RATES, IF NEEDED.
4. APPLY MULCH AT 1 1/2 - 2 TONS/ACRE ON SLOPES GREATER THAN 4:1.

WHENEVER POSSIBLE, EXISTING VEGETATION SHALL BE LEFT UNDISTURBED.

1. ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING CEASES.
2. CONTRACTOR SHALL PLACE RIP-RAP AND SILT FENCING AT THE END OF EACH FLUME FOR EROSION CONTROL.

SEQUENCE OF PROPOSED ACTIVITIES

1. TAKE ALL NECESSARY MEASURES TO PROTECT AGAINST EROSION AND DUST POLLUTION ON AND AROUND THE PROJECT SITE TO INCLUDE ALL OFF-SITE BORROW AND SPILL AREAS.
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STABILIZATION MEASURES

NOTE: DISTURBED AREAS OF THE CONSTRUCTION SITE THAT WILL NOT BE RE-DISTURBED FOR 21 DAYS OR MORE MUST INITIATE STABILIZATION MEASURES BY THE 14TH DAY AFTER THE LAST DISTURBANCE, EXCEPT AS PRECLUDED BY SNOW COVER. IN THE EVENT OF SNOW COVER, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

MEASURES TO BE USED AT THIS SITE:

- A. MULCHING, 1 1/2 - 2 1/2 TONS/ACRE
- B. ALL DISTURBED AREAS TEMPORARY SEEDING
- C. BEFORE FINAL SEEDING OR SOD IS ESTABLISHED
- D. SOD STABILIZATION OR FINAL SEEDING
- E. FINAL SITE LANDSCAPING

STRUCTURAL CONTROL MEASURES

MEASURES TO BE USED AT THIS SITE:

1. SILT FENCES (OR FILTER SOCKS)
2. STORM DRAIN INLET PROTECTION

STORM WATER MANAGEMENT CONTROLS

STORM WATER DETENTION BASIN (RAIN GARDEN INFILTRATION MEASURES) (NOT IN THIS PLAN)

INSPECTION AND MAINTENANCE PLAN

1. QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT REACHED "FINAL STABILIZATION" AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER REPLACEMENT.

OTHER CONTROLS

1. ALL CONTRACTORS SHALL PROPERLY DISPOSE OF ALL SITE WASTE MATERIALS.
 - a. IOWA'S SOLID WASTE REGULATIONS REQUIRE THAT CONSTRUCTION AND DEMOLITION WASTE BE TAKEN TO A PERMITTED SANITARY LANDFILL. NO LIQUID OR HAZARDOUS WASTE WILL BE ACCEPTED. CONTACT THE NEAREST INDR FIELD OFFICE TO DETERMINE THE NEAREST PERMITTED SANITARY LANDFILL.
 - b. RUBBLE (UNCONTAMINATED STONE, BRICK, OR SIMILAR INORGANIC MATERIAL), ROCK AND SAND MAY BE DISPOSED OF WITHOUT A PERMIT IN AN ENVIRONMENTALLY SAFE MANNER. THIS MEANS NOT IMPEDING WATERWAYS OR DRAINAGE AS WELL AS NOT DISPOSING RUBBLE, ROCK OR SAND IN FLOOD PLAINS OR WETLANDS WITHOUT INDR APPROVAL.
 - c. THE OPEN BURNING OF TREES, TREE TRIMMINGS, AND LANDSCAPE WASTE IS NOT ALLOWED.
 - d. WHERE POSSIBLE, CONTRACTORS ARE ENCOURAGED TO REUSE ORGANIC MATERIAL TAKEN FROM THE SITE AS A CHIPPED MULCH OR COMPOST TO BE USED TO MEET EROSION CONTROL REQUIREMENTS.
2. ALL CONTRACTORS SHALL TREAT OR DISPOSE OF SANITARY WASTES THAT ARE GENERATED ON-SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
 - a. CONTACT THE COUNTY SANITARIAN'S OFFICE FOR LOCAL REQUIREMENTS. IF THE COUNTY SANITARIAN CANNOT BE REACHED, CONTACT THE REGIONAL INDR OFFICE.
3. TOPSOIL STOCKPILES AND OTHER STORAGE AREAS SHALL BE PROTECTED THROUGH USE OF PERIMETER CONTROLS LOCATED WITHIN 50 FEET OF STORAGE AREA. LOCATE CONTROLS AT ADEQUATE DISTANCE FROM STORAGE AREA SO THEY WILL NOT BE DISTURBED BY STOCKPILING OR STORAGE ACCESS OPERATIONS.
4. ALL CONTRACTORS SHALL PREVENT OFF-SITE TRACKING OF SEDIMENTS AND GENERATION OF DUST.
 - a. ANY DEBRIS OR SEDIMENT TRACKED ON TO ADJACENT PROPERTIES AND ADJACENT RIGHT-OF-WAYS SHALL BE CLEANED OR COLLECTED DAILY, OR IMMEDIATELY IF NOTIFIED BY THE OWNER AND DISPOSED OF AS PER CONDITIONS OF THIS PLAN.
 - b. INSTALL DUST CONTROL MEASURES, AS CONDITIONS WARRANT.
5. ALL CONTRACTORS SHALL IDENTIFY AND PREVENT CONTAMINATION BY NON-STORM WATER DISCHARGES. CONTRACTORS SHALL TAKE STEPS TO PREVENT CONTAMINATION FROM THESE DISCHARGES.
6. CONTAMINATED RUNOFF COLLECTED ON SITE SHALL NOT BE DIRECTLY DISCHARGED FROM THE SITE AS PART OF DEWATERING.
 - a. PROVISIONS SHALL BE MADE TO RELEASE CONTAMINATED RUNOFF FROM DEWATERING MEASURES MORE SLOWLY SO THAT SEDIMENT AND OTHER CONTAMINANTS CAN BE REMOVED.
7. ANY SEDIMENT COLLECTED BY CONTROL MEASURES, OR REMOVED FROM STORM SEWERS OR ADJACENT CHANNELS WILL BE RESPIRED ON-SITE, UPSTREAM OF CONTROL MEASURES THAT ARE IN GOOD WORKING ORDER.

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Revisions	Date

Amendment	Date
001	

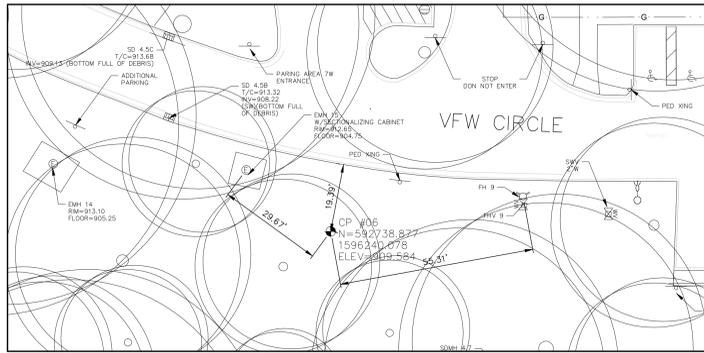
CONSULTANTS:	ARCHITECT/ENGINEERS:
	VACIHCS
	Office of Engineering and Facility Management

Drawing Title	Project Title
LAYOUT AND GRADING PLAN	SIDEWALK CIRCLE DRIVE
Approved Project Director	Location
ROGER FRY	DES MOINES, IOWA
Date	Checked
09 JUL 2014	WAR
Drawn	Dwg
GJB	3 of 4

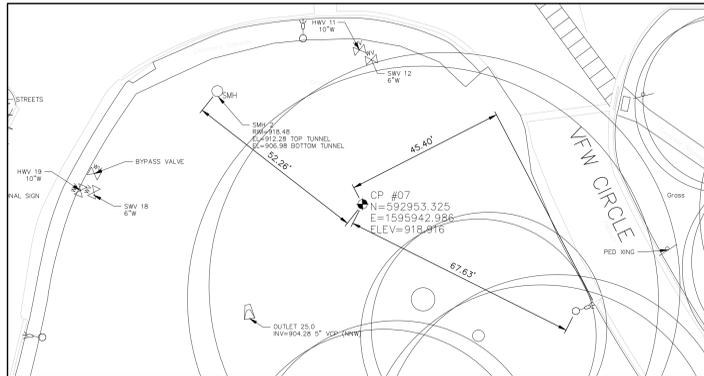
Project Number	Building Number
636A6-14-906SL	
Drawing Number	Dwg
CS-102	3 of 4

VACIHCS
3600 30th ST
Des Moines, Iowa

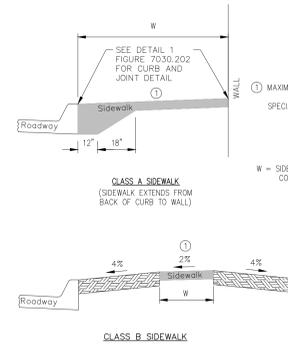
Department of Veterans Affairs



CP#06 BRASS DISC IN CONCRETE MONUMENT



CP#07 BRASS DISC IN CONCRETE MONUMENT

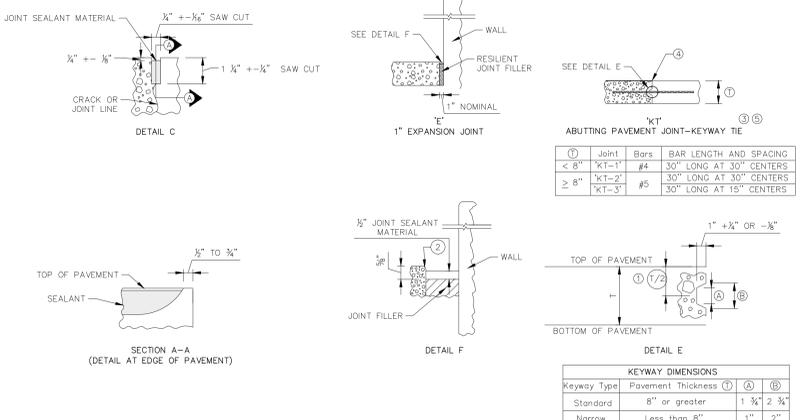


CLASS A SIDEWALK
CLASS B SIDEWALK

① MAXIMUM CROSS SLOPE OF SIDEWALK (INCLUDING SIDEWALK THROUGH DRIVEWAY) IS 2%
SPECIAL GRADE MAY BE SPECIFIED IN THE CONTRACT DOCUMENTS.

W = SIDEWALK WIDTH AS SPECIFIED IN THE CONTRACT DOCUMENTS (TYP)

CLASSES OF SIDEWALKS
REFERENCE SUDAS
FIGURE 7030.201
NO SCALE



KEYWAY DIMENSIONS			
Keyway Type	Pavement Thickness	①	②
Standard	8" or greater	1 3/4"	2 3/4"
Narrow	Less than 8"	1"	2"

① WHEN TYPED INTO OLD PAVEMENT, T REPRESENTS THE DEPTH OF SOUND PCC.

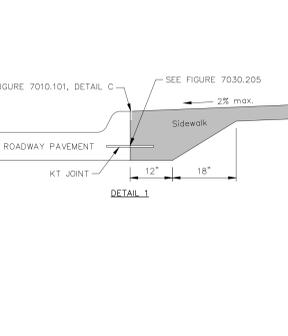
② EDGE WITH 1/8 INCH TOOL FOR LENGTH OF JOINT INDICATED IF FORMED; EDGING NOT REQUIRED WHEN CUT WITH DIAMOND SAW.

③ BAR SUPPORTS MAY BE NECESSARY FOR FIXED FORM PAVERS TO ENSURE THE BAR REMAINS IN A HORIZONTAL POSITION IN THE PLASTIC CONCRETE.

④ SAWING OR SEALING OF JOINT NOT REQUIRED.

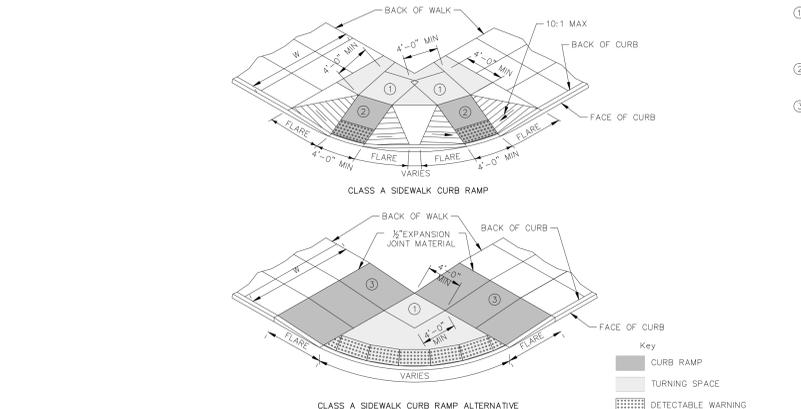
⑤ THE FOLLOWING JOINTS ARE INTERCHANGEABLE, SUBJECT TO THE POURING SEQUENCE:
BT-1", L-1", AND KT-1"
KT-2" AND L-2"
KT-3" AND L-3"

JOINTS
REFERENCE SUDAS
FIGURE 7010.101
NO SCALE



CLASS A SIDEWALK CURB RAMP

CURB DETAILS FOR CLASS A SIDEWALK
REFERENCE SUDAS
FIGURE 7030.202
NO SCALE



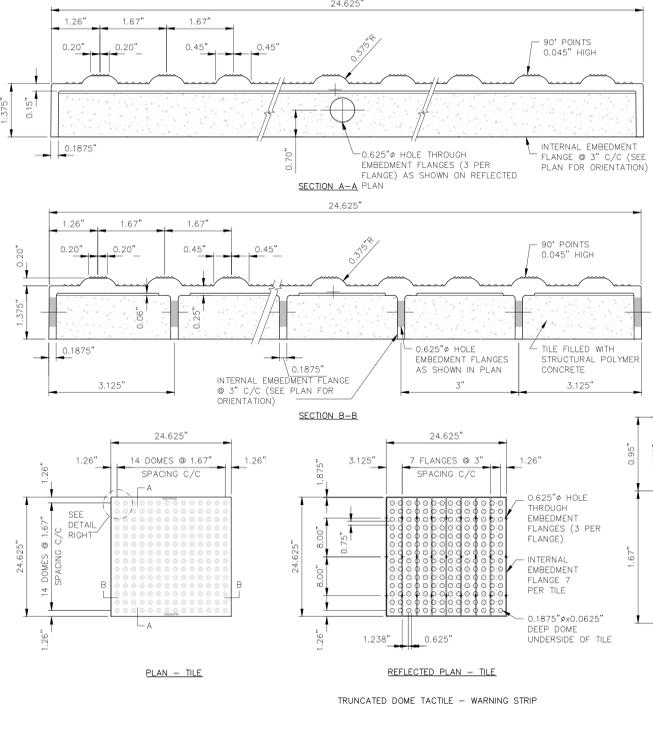
KEY	
[Pattern]	CURB RAMP
[Pattern]	TURNING SPACE
[Pattern]	DETECTABLE WARNING

① TURNING SPACE: TARGET SLOPE OF 1.5% WITH MAXIMUM SLOPE PERPENDICULAR TO THE TRAVEL DIRECTION OF 2.0% MINIMUM 4 FEET BY 4 FEET (TURNING SPACES MAY OVERLAP).

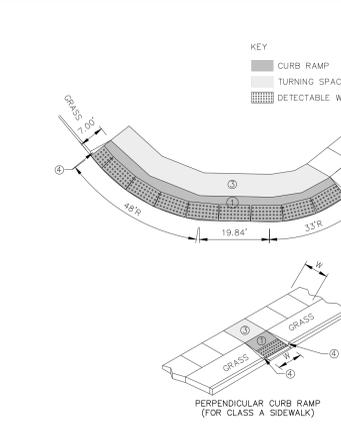
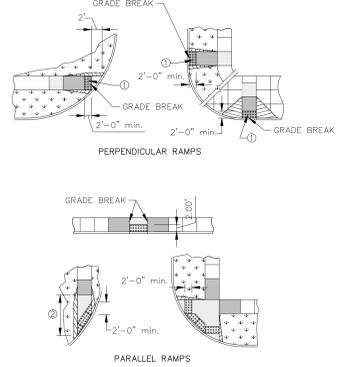
② PERPENDICULAR CURB RAMP: TARGET RUNNING SLOPE OF 6.25% WITH MAXIMUM RUNNING SLOPE OF 8.3%.

③ PARALLEL CURB RAMP: TARGET RUNNING SLOPE OF 8.3% THE LENGTH OF THE PARALLEL RAMP IS NOT REQUIRED TO EXCEED 15 FEET, REGARDLESS OF THE RESULTING SLOPE. DO NOT EXCEED 8.3% FOR PARALLEL RAMPS SHORTER THAN 15 FEET.

CLASS A SIDEWALK CURB RAMP
REFERENCE SUDAS
FIGURE 7030.209
NO SCALE



DETECTABLE WARNING NOTES:
THE DETECTABLE WARNING STRIP MUST COVER THE ENTIRE WIDTH OF THE RAMP OPENING, EXCLUDING THE WINGS. ALL DOMES MUST BE ALIGNED IN THE DIRECTION OF TRAVEL. ONE CORNER OF THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE MORE THAN 5 FEET FROM THE BACK OF THE CURB. WHEN LOCATED ALONG A CURB RETURN, THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE DEFINED BY THE CHORD DRAWN BETWEEN THE LEADING EDGES OF THE RAMP OPENING.



PROVIDE A MINIMUM 2 FOOT WIDTH OF DETECTABLE WARNING SURFACES IN THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS THE FULL WIDTH OF THE CURB RAMP OR TURNING SPACE, EXCLUSIVE OF CURBS OR FLARES.

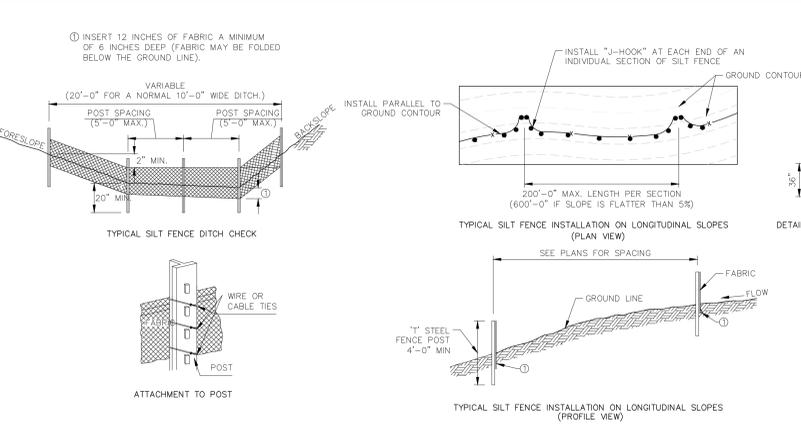
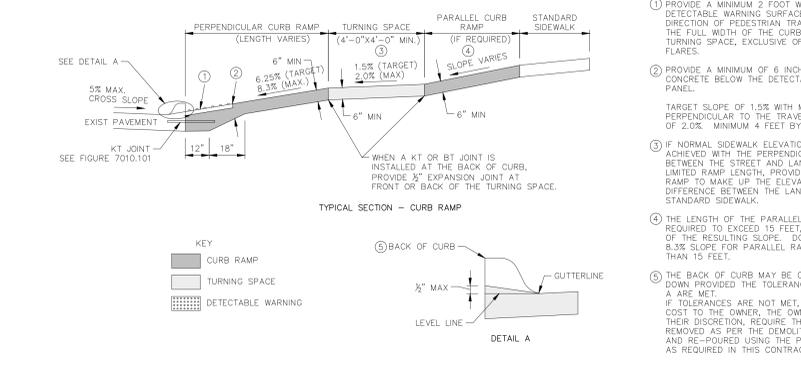
① WHEN DETECTABLE WARNING IS LOCATED ON CURB RAMP SURFACE, ORIENT DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL.

② WHEN THE DISTANCE BETWEEN THE GRADE BREAK AND THE BACK OF CURB IS LESS THAN 5 FEET, PLACE DETECTABLE WARNING SURFACE AT THE BOTTOM OF THE CURB RAMP.

WHERE ONE CORNER OF THE CURB RAMP IS MORE THAN 5 FEET FROM THE BACK OF CURB, CONSTRUCT CURB RAMP AS A PARALLEL CURB RAMP. MOVE GRADE BREAK BACK AS REQUIRED TO PLACE DETECTABLE WARNING ON TURNING SPACE AT THE BACK OF CURB.

KEY
CURB RAMP
TURNING SPACE
DETECTABLE WARNING

DETECTABLE WARNING PLACEMENT
REFERENCE SUDAS
FIGURE 7030.210
NO SCALE



① PROVIDE A MINIMUM 2 FOOT WIDTH OF DETECTABLE WARNING SURFACES IN THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS THE FULL WIDTH OF THE CURB RAMP OR TURNING SPACE, EXCLUSIVE OF CURBS OR FLARES.

② PROVIDE A MINIMUM OF 6 INCHES OF CONCRETE BELOW THE DETECTABLE WARNING PANEL.

TARGET SLOPE OF 1.5% WITH MAXIMUM SLOPE PERPENDICULAR TO THE TRAVEL DIRECTIONS OF 2.0% MINIMUM 4 FEET BY 4 FEET.

③ IF NORMAL SIDEWALK ELEVATION CANNOT BE ACHIEVED WITH THE PERPENDICULAR RAMP BETWEEN THE STREET AND LANDING DUE TO LIMITED RAMP LENGTH, PROVIDE A PARALLEL RAMP TO MAKE UP THE ELEVATION DIFFERENCE BETWEEN THE LANDING AND THE STANDARD SIDEWALK.

④ THE LENGTH OF THE PARALLEL RAMP IS NOT REQUIRED TO EXCEED 15 FEET, REGARDLESS OF THE RESULTING SLOPE. DO NOT EXCEED 8.3% SLOPE FOR PARALLEL RAMPS SHORTER THAN 15 FEET.

⑤ THE BACK OF CURB MAY BE CUT OR GROUND DOWN PROVIDED THE TOLERANCES IN DETAIL A ARE MET.
IF TOLERANCES ARE NOT MET, AND AT NO COST TO THE OWNER, THE OWNER MAY, AT THEIR DISCRETION, REQUIRE THE CURB TO BE REMOVED AS PER THE DEMOLITION SHEET AND RE-POURED USING THE PROPER JOINTS AS REQUIRED IN THIS CONTRACT.

GENERAL SIDEWALK AND CURB RAMP DETAILS
REFERENCE SUDAS
FIGURE 7030.205
NO SCALE

① INSERT 12 INCHES OF FABRIC A MINIMUM OF 6 INCHES DEEP (FABRIC MAY BE FOLDED BELOW THE GROUND LINE).

② REDUCE POST SPACING TO 5'-0" AT WATER CONCENTRATION AREAS, OR AS REQUIRED TO ADEQUATELY SUPPORT FENCE.

INSTALL 12 INCHES OF FABRIC A MINIMUM OF 6 INCHES DEEP (FABRIC MAY BE FOLDED BELOW THE GROUND LINE).

INSTALL \"/>

CONSULTANTS:

ARCHITECT/ENGINEERS:

VACIHCS
Office of Engineering and Facility Management

Drawing Title
DETAILS

Approved Project Director
ROGER FRY

BID SET

Project Title
SIDEWALK CIRCLE DRIVE

Project Number
636A6-14-906SL

Building Number

Location
DES MOINES, IOWA

Date
09 JUL 2014

Checked
WAR

Drawn
GJB

Drawing Number
CS-103

Dwg. **4** of **4**

VACIHCS
3600 30th ST
Des Moines, Iowa

Department of
Veterans Affairs