

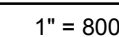


MCDONALD'S USA, LLC
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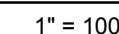
CPH, INC.
2216 ALTAMONT AVENUE
FORT MYERS, FLORIDA 33901
ATTN.: JEFFREY M. SATFIELD, P.E.
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**CITY OF MARCO ISLAND
PLANNING AND ZONING
50 BALD EAGLE DRIVE
MARCO ISLAND, FLORIDA 34145
ATTN.: BRIAN MILK
PHONE: (239) 389-5012**

THE PURPOSE OF THIS PROJECT IS TO UPDATE THE EXISTING DRIVE-THRU AREA BY REMOVING AND/OR RELOCATING THE EXISTING DRIVE-THRU EQUIPMENT, AND CONSTRUCTING A SIDE BY SIDE DRIVE-THRU WITH ALL SUPPORTING EQUIPMENT.



COLLIER COUNTY, FLORIDA
SECTION 8-TOWNSHIP 52 SOUTH-RANGE 26 EAST



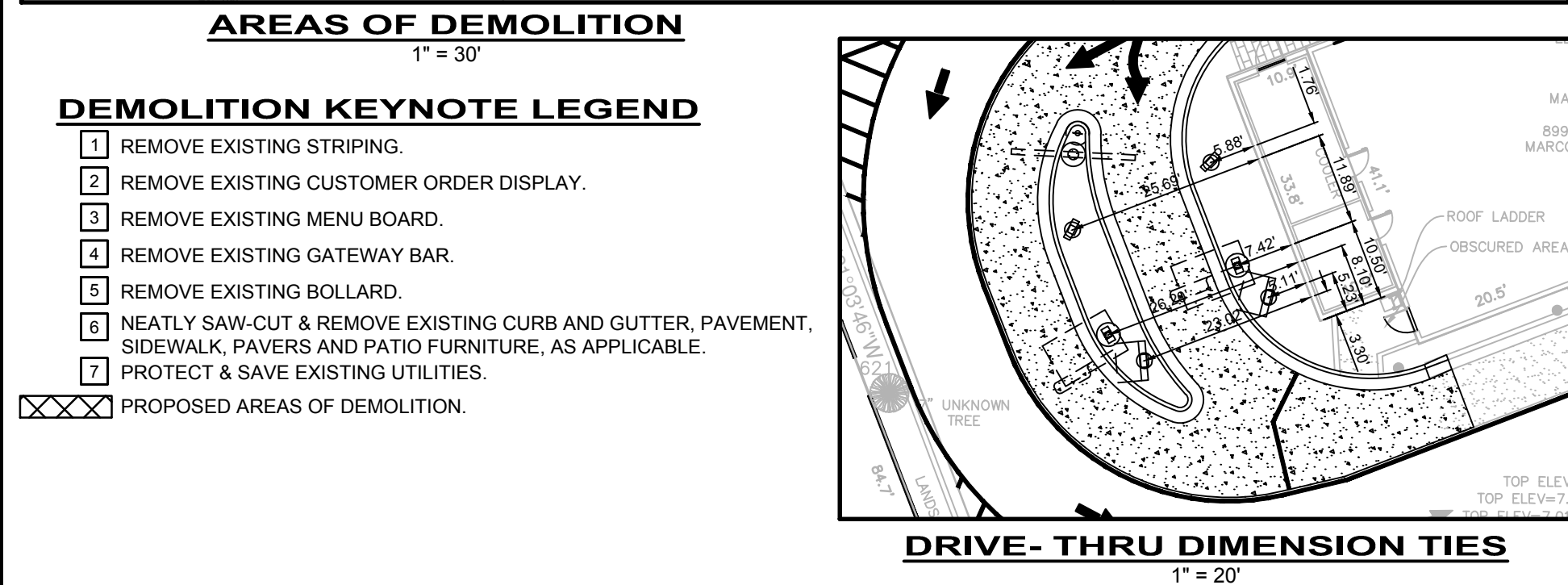
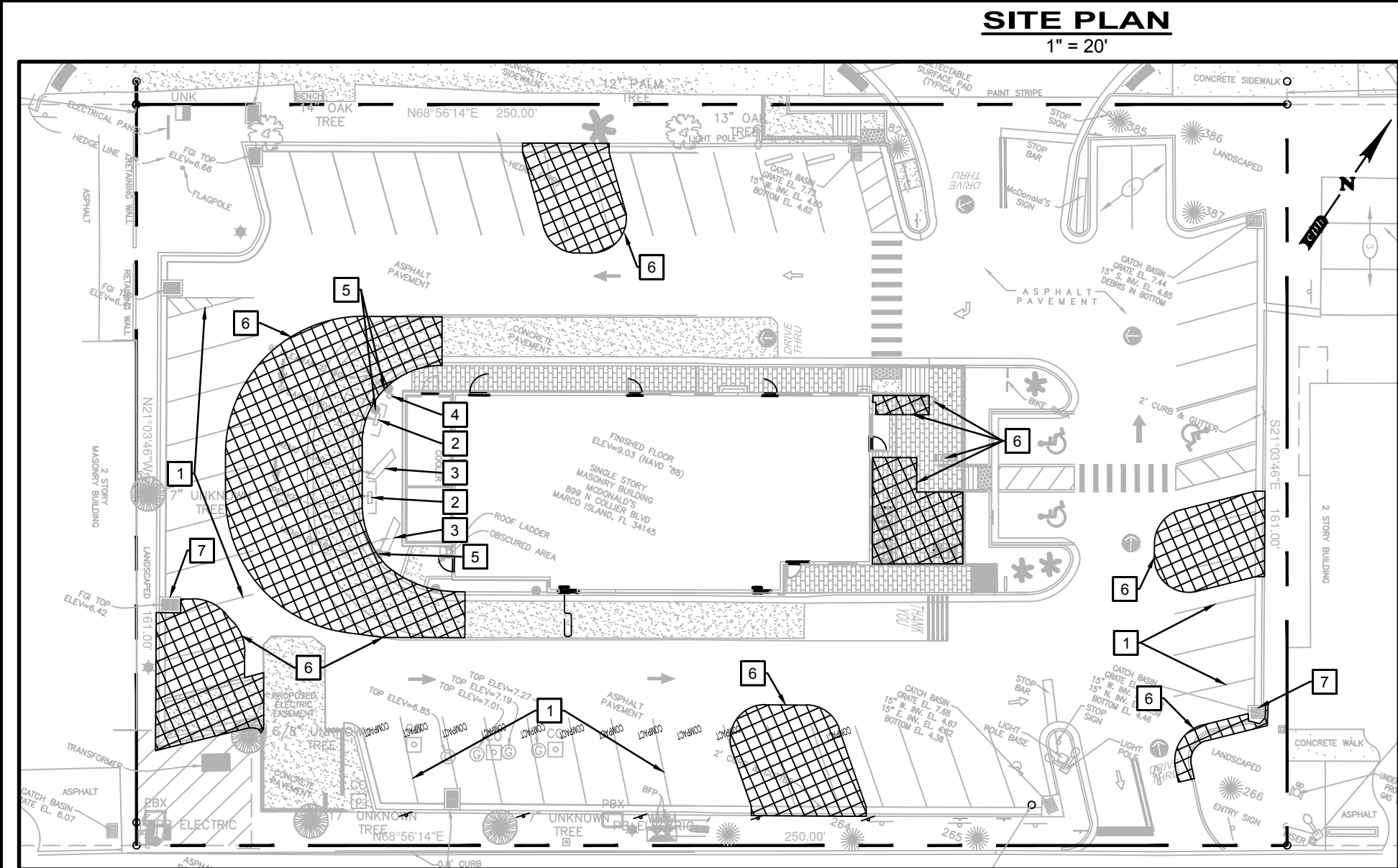
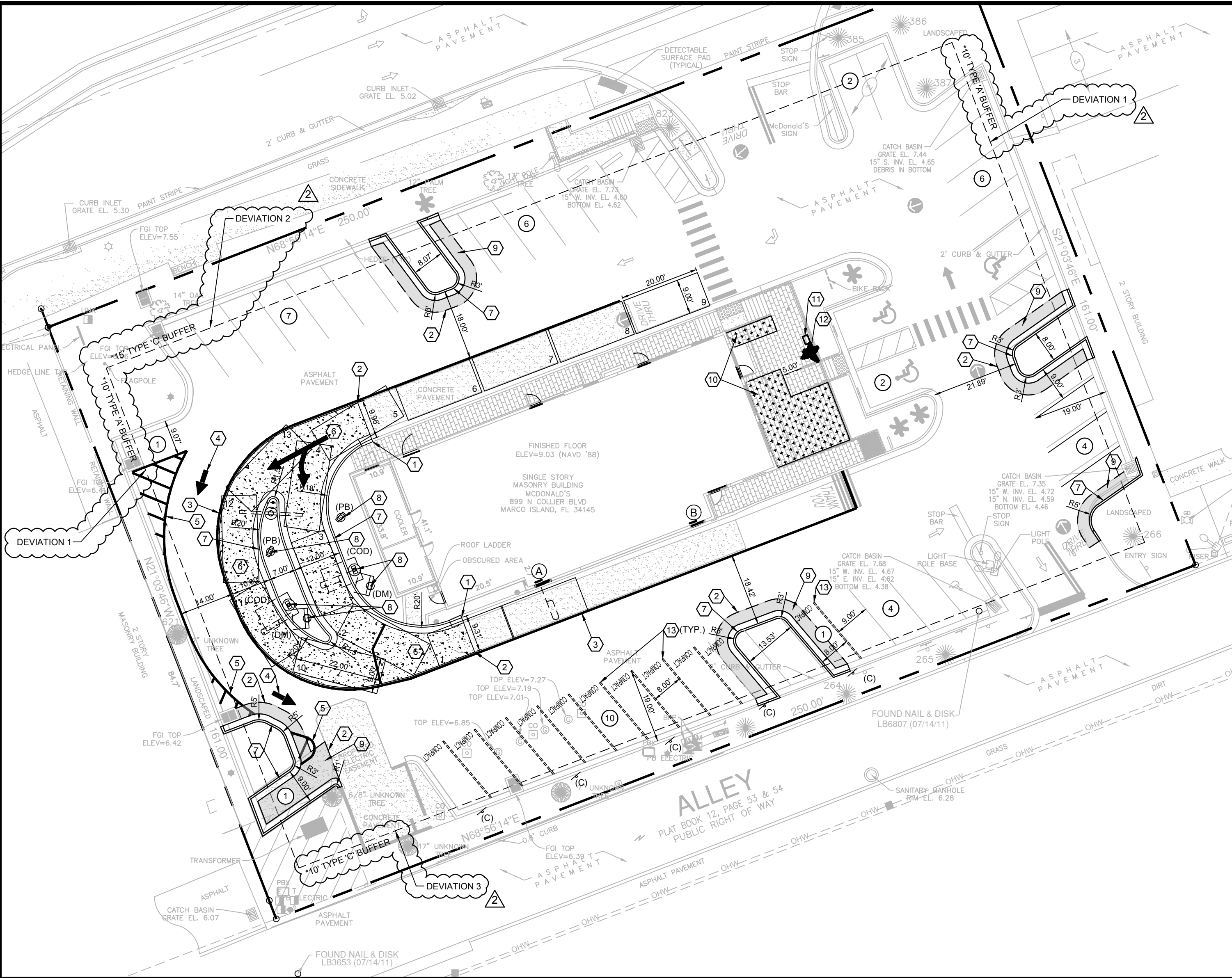
COLLIER COUNTY, FLORIDA
SECTION 8-TOWNSHIP 52 SOUTH-RANGE 26 EAST

- C-1 COVER SHEET
- C-2 SITE PLAN
- C-3 GRADING AND EROSION AND SEDIMENTATION CONTROL PLAN
- C-4 GENERAL DETAILS
- L-1 LANDSCAPE PLAN
- L-2 LANDSCAPE PLAN DETAILS



NOTICE
THE SIZE OF THESE PLANS MAY HAVE BEEN
SLIGHTLY ALTERED BY REPRODUCTION
PROCESSES, THIS MUST BE CONSIDERED WHEN
SCALING ANY REPRODUCED PLANS FOR THE
PURPOSE OF COLLECTING DATA.

McDONALD'S PROJECT
CODE: 009-0798

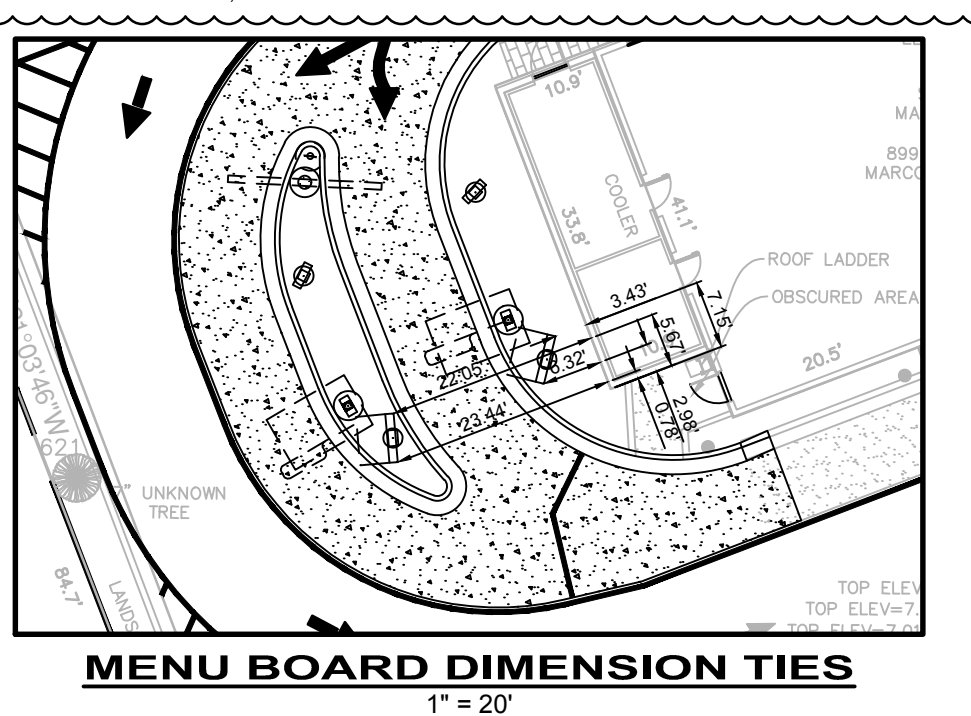


SITE PLAN KEYNOTE LEGEND

- NEATLY SAW-CUT, REMOVE AND MATCH EXISTING CURB AND GUTTER AND PAVEMENT WITH A SMOOTH TRANSITION.
- PROPOSED SAW-CUT LIMITS.
- PROPOSED SINGLE YELLOW SOLID LINE / 6" WIDE
- PROPOSED PAVEMENT STRIPING, SEE DETAILS, SHEET C-4.
- PROPOSED SINGLE WHITE SOLID LINE / 4" WIDE SPACED AT 4' O.C. AT 45° BOUNDED BY SINGLE WHITE SOLID LINE / 4" WIDE.
- PROPOSED CONCRETE PAVEMENT. SEE DETAIL, SHEET C-4.
- PROPOSED CURB AND GUTTER PER FDOT INDEX #520-001, STANDARD CURBING SHOWN SHADED.
- PROPOSED CONDUIT CONNECTION. SEE MENU BOARD AND COD MANUFACTURER'S DETAILS.
- PROPOSED ASPHALT PAVEMENT.
- PROPOSED PERIMETER LANDSCAPE.
- PROPOSED RECYCLING BIN
- PROPOSED POTTED TREE.
- PROPOSED COMPACT PARKING STALL DOUBLE-STRIPED PER SEC. 30-485(c).

* SCHEDULE OF DEVIATIONS

- DEVIATION 1: DEVIATION FROM THE CODE SECTION 30-441 (G) WHICH REQUIRES A 10-FOOT WIDE TYPE 'A' BUFFER FOR COMMERCIAL PROPERTIES ABUTTING COMMERCIAL ZONED PROPERTIES, TO ALLOW TO MAINTAIN EXISTING BUFFER WIDTH PROVIDED ± 5-FOOT TO THE EAST AND ± 5-FOOT TO THE WEST.
- DEVIATION 2: DEVIATION FROM THE CODE SECTION 30-441 (G) WHICH REQUIRES A 15-FOOT WIDE TYPE 'C' BUFFER FOR COMMERCIAL PROPERTIES ABUTTING ROAD RIGHT OF WAY MORE THAN 100-FOOT WIDE, TO ALLOW TO MAINTAIN EXISTING BUFFER WIDTH PROVIDED ± 6-FOOT.
- DEVIATION 3: DEVIATION FROM THE CODE SECTION 30-441 (G) WHICH REQUIRES A 10-FOOT WIDE TYPE 'C' BUFFER FOR COMMERCIAL PROPERTIES ABUTTING ROAD RIGHT OF WAY BETWEEN 0-FOOT AND 99-FOOT WIDE, TO ALLOW TO MAINTAIN EXISTING BUFFER WIDTH PROVIDED ± 7-FOOT.



GENERAL NOTES

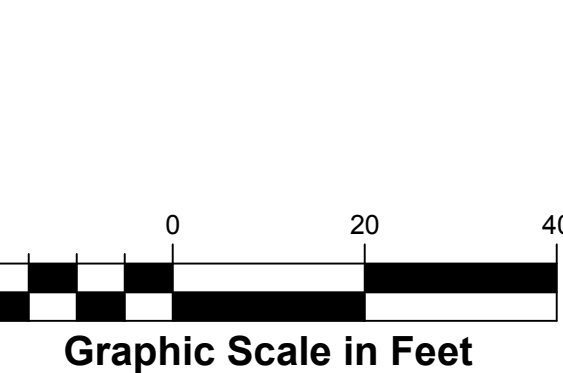
- DRIVE-THRU ELEMENTS: COD, DRIVE-THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE-THRU ELEMENTS. OTHER DESIGNS MAY NOT BE USED.
- CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, CONTENT SUPPLIER AND SIGNAGE SUPPLIER TO DETERMINE EXACT LOCATION, ORIENTATION, MOUNTING HEIGHTS AND NUMBER OF BOARDS AND OTHER DRIVE-THRU ELEMENTS TO BE INSTALLED AT THIS SITE. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
- CONTACT McDONALD'S AREA CONSTRUCTION MANAGER FOR DRIVE-THRU ELEMENT FOOTING AND WIRING REQUIREMENTS NOT SHOWN. INFORMATION ALSO AVAILABLE THROUGH VENDOR WEBSITES: SIGNAGE MANUFACTURER TO PROVIDE FOOTING ANCHORS & TEMPLATES TO G.C. PRIOR TO FOUNDATION POURING.
- SEE DETAIL 2100MB FOR DETECTOR LOOP INFORMATION, DETAIL 3100MB FOR LOW VOLTAGE CONDUIT DIAGRAM AND DETAIL 400MB FOR DRIVE THRU POWER DIAGRAM. VENDORS SPECIFICATIONS SHALL GOVERN UPON ANY DISCREPANCIES.
- CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR, CONTENT SUPPLIER AND THE SIGN SUPPLIER.
- CONTRACTOR TO INSTALL PRE-FORMED, PRE-WIRED VEHICLE DETECTOR LOOP.
- CONTRACTOR SHALL VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER.

SIDE BY SIDE DRIVE-THRU

STANDARD 1.0 FEATURES:

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT:

- PRE-BROWSE BOARD MUST BE 16"-24" FROM FACE OF CURB. THE DISTANCE BETWEEN THE PRIMARY COD AND PRE-BROWSE BOARD IS TO BE 15' AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS IS MEASURED FROM THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE CENTER OF THE COD FOUNDATION. THE ANGLE (APPROXIMATELY 50°) OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM COD.
- PRE-BROWSE BOARD MUST BE MIN. 10" FROM FACE OF CURB. THE DISTANCE BETWEEN THE SECONDARY COD AND PRE-BROWSE BOARD IS TO BE 15' AS MEASURED ALONG FACE OF THE CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR TO THE CENTER OF THE COD FOUNDATION. THE ANGLE OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM COD (PREFERRED 35°).



SITE LEGEND

- (DM) = PROPOSED DIGITAL MENU BOARD
- (PB) = PROPOSED DIGITAL PRE-BROWSE BOARD
- (COD) = PROPOSED CUSTOMER ORDER DISPLAY SPEAKER
- = PROPOSED DRIVE-THRU GATEWAY BAR
- = PROPOSED DETECTOR LOOP
- = PROPOSED STANDARD DUTY CONCRETE PAVEMENT (GC TO BID INTEGRATED BLACK CONCRETE AS AN ALTERNATIVE).
- = PROPOSED ASPHALT PAVEMENT/RE-GRADING
- (A) = ORDER WINDOW
- (B) = PRESENTER WINDOW
- (X) = PRESENTER WINDOW
- (C) = COMPACT PARKING SIGN (PER SEC. 30-485(c))

SITE NOTES

- EXISTING UTILITIES ARE SHOWN IN SCHEMATIC ONLY. CONTRACTOR SHALL USE DUE REGARD WHEN PERFORMING ANY SITE DEMOLITION.
- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAK.
- FINISH WALK AND CURB ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT.
- DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS SHOWN (BOC) WHICH INDICATES BACK OF CURB.
- CONTRACTOR TO SEAL AND RE-STRIP AFFECTED PARKING AREA. STRIPING TO BE REPLACED AS EXISTING EXCEPT WHERE NOTED OTHERWISE.
- ADJUST ALL MANHOLE RINGS AND CLEAN OUT COVERS TO BE FLUSH WITH FINISHED GRADE. ALL PARTS TO BE TRAFFIC BEARING (AASHTO H-20 LOADING).
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AT EXISTING UTILITY. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.
- ENSURE SPEECH/HEARING IMPAIRED SIGNAGE IS PROVIDED AT COD, CASHIER WINDOW & PRESENTER WINDOW.
- TRANSITIONS TO BE FLUSH ALL ALONG THE ACCESSIBLE ROUTE. CONTRACTOR SHALL ENSURE THE MAXIMUM CONSTRUCTED LEVEL TRANSITION AT EVERY JOINT DOES NOT EXCEED THE MAXIMUM ALLOWABLE UNDER THE ADA AFTER SETTLEMENT, EXPANSION, CONTRACTION, ETC. CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
- FILL EXPANSION / CONTROL JOINT WITH EXTERIOR GRADE CONCRETE EXPANSION JOINT CAULKING. FILL ENTIRE LENGTH OF JOINT SUCH THAT ANY CHANGE IN ELEVATION DOES NOT EXCEED 1/4" IN ELEVATION FROM THE ADJACENT CONCRETE SURFACES WHEN CAULKING HAS CURED. FOR JOINTS WITH VOIDS DEEPER THAN 1/2", INSTALL CONTINUOUS FIBERBOARD EXPANSION JOINT FILLER BELOW CAULKING TO SUPPORT CAULKING ABOVE.
- ALL CONCRETE POURS SHALL BE BOUND BY EXPANSION JOINTS WHEN ABUTTING ANOTHER CONCRETE POUR / SLAB OR ASPHALT PAVEMENT, INCLUDING CURBING.
- CONTRACTOR TO REPLACE DAMAGED PLANT MATERIAL, INCLUDING SOD, IMPACTED BY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE LANDSCAPE PLAN.
- CONTRACTOR TO MODIFY IRRIGATION AS NECESSARY TO ACCOMMODATE NEW LANDSCAPE.

SIDE BY SIDE DRIVE-THRU STANDARD 1.0

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 CURBING DETAILS:

- DRIVE-THRU LANES BOUND BY CURB ON BOTH SIDES ARE TO BE 12'-0" LANES BOUND BY CURB ON ONE SIDE AND PAINTED STRIPING ON THE OTHER SIDE ARE TO BE A MIN. OF 10'-0".
- THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE-THRU CURBING IS 20'-0".
- PRIMARY LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).
- THE OVERALL LENGTH OF THE CURBED ISLAND SHOULD BE 35'-45". THE LENGTH OF THE ISLAND FROM THE COD ALLOWS FOR THREE CARS IN THE SECONDARY LANE, TWO IN THE PRIMARY LANE AND ONE AT THE COMMITMENT POINT.
- ENTRANCE LANE ENTERING THE SIDE BY SIDE DRIVE-THRU IS TO BE 14'-0" MIN.
- THE RADIUS FOR THE ISLAND TIP SHALL BE 1'-6".

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 PAVEMENT MARKINGS:

- 6" WIDE YELLOW PAINT STRIPE TO SPAN OUTSIDE EDGE OF THE ENTIRE DRIVE-THRU LANE. LANE STARTS AT DRIVE-THRU ENTRANCE WHERE "McDONALD'S GATEWAY" SIGN IS LOCATED.
- DOUBLE-HEADED ARROW PAVEMENT MARKING. STANDARD STRIPING MARKINGS ARE 7'-0" SHARP, 7'-0" ARROW STEM AND 3'-0" FOR THE ARROW HEAD. TIP OF ARROW HEAD TO BE LOCATED AT CENTER OF EACH LANE.
- MERGE POINT IS LOCATED WHERE TWO VEHICLES LEAVING EACH COD SIMULTANEOUSLY MEET. THE MERGE POINT STRIPING IS TO BE LOCATED BY OFFSETTING THE INNER PRIMARY LANE BACK OF CURB 8'-0" AND OFFSETTING THE OUTER LANE STRIPING 8'-0". AT THE INTERSECTION OF THESE OFFSETS, A 6" YELLOW STRIPE IS TO BE MARKED PERPENDICULAR TO THE OUTER LANE AS WELL AS THE INNER PRIMARY LANE.
- THE WORDS "THANK YOU" ARE TO BE PLACED 8" FROM THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU".
- THE 6" YELLOW STRIPE IS TO BE PLACED 4'-0" FROM THE CENTER LINE OF THE OPEN PRESENTER WINDOW AND IS FOR PARKING CARS THAT ARE WAITING FOR ORDERS.
- A CIRCLE DIRECTIONAL ARROW CENTERED ABOVE THE WORD "DRIVE THRU" USED TO INDICATE THE DRIVE THRU ENTRY POINT.

- * = ITEMS NOT PROVIDED OR UNABLE TO MEET LAYOUT CRITERIA DUE TO SITE CONSTRAINTS.

SITE DATA

THE PURPOSE OF THIS PROJECT IS TO UPDATE THE EXISTING DRIVE-THRU AREA BY REMOVING AND/OR RELOCATING THE EXISTING DRIVE-THRU EQUIPMENT, AND CONSTRUCTING A SIDE BY SIDE DRIVE-THRU WITH ALL SUPPORTING EQUIPMENT.

SITE ADDRESS: 899 N. COLLIER BOULEVARD
MARCO ISLAND, FLORIDA 34145

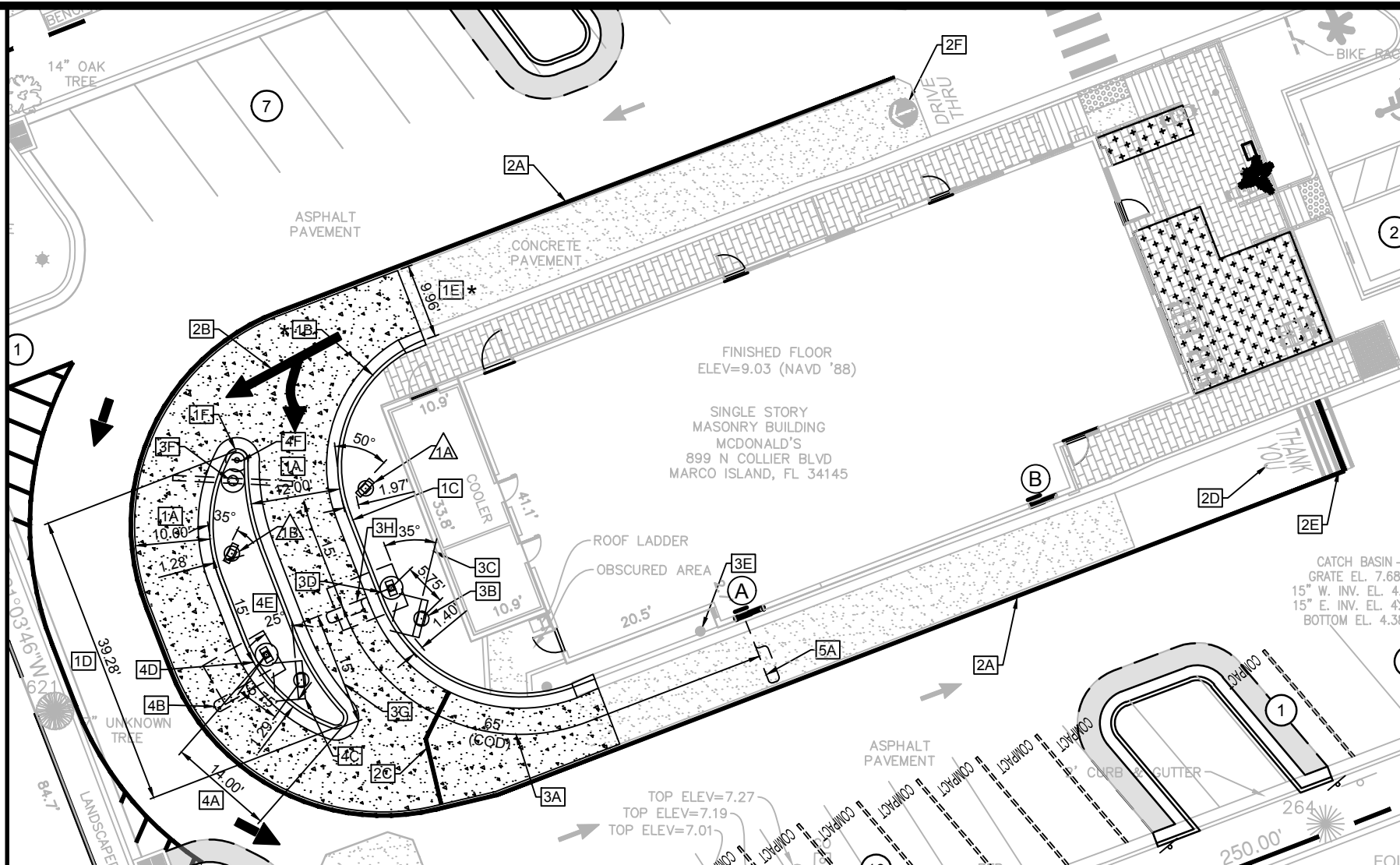
PARCEL I.D. NUMBER: 57490120006
SITE TOTAL AREA: 40,250 S.F. (0.924 A.C.±)
EXISTING LAND USE: FAST FOOD WITH DRIVE THRU
PROPOSED LAND USE: FAST FOOD WITH DRIVE THRU
EXISTING USE: McDONALD'S RESTAURANT
PROPOSED USE: McDONALD'S RESTAURANT
ZONING: C4 WITH OVERLAY DISTRICT 1
SUBJECT SITE: C4 WITH OVERLAY DISTRICT 1
NORTH: NORTH COLLIER BLVD. (SR 951)
EAST: C4 WITH OVERLAY DISTRICT 1
SOUTH: C4 WITH OVERLAY DISTRICT 1
WEST: C4 WITH OVERLAY DISTRICT 1

EXISTING AREA CALCULATIONS:
BUILDING AREA: = 4,183 S.F. (10.39%)
IMPERVIOUS AREA: = 29,409 S.F. (73.07%)
PERVIOUS AREA: = 6,658 S.F. (16.54%)
TOTAL: = 40,250 S.F. (100%)

PROPOSED AREA CALCULATIONS:
BUILDING AREA: = 4,183 S.F. (10.39%)
IMPERVIOUS AREA: = 27,923 S.F. (69.38%)
PERVIOUS AREA: = 7,716 S.F. (19.17%)
PERIMETER LANDSCAPE: = 429 S.F. (1.06%)
TOTAL: = 40,250 S.F. (100%)

NOTES:

- EXISTING OUTDOOR SEATS REMOVED.
- IMPERVIOUS AREA REDUCED.



DRIVE THRU LAYOUT GUIDELINES

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR PRIMARY LANE:

- MIN. 60'-0" (45' 60'-65') LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE COD FACE AND THE CENTER LINE OF THE OPEN ORDER BOOTH WINDOW AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS MAY ONLY BE INCREASED IN 20'-0" INCREMENTS (45' FOR 80', 100', AND 120') TO A MAX OF 120'. 100'-0" IS OPTIMAL.
- THE CENTER OF THE PRIMARY MENU BOARD FOUNDATION IS TO BE 5'-9" (5'-0" MIN. AND 6'-0" MAX.) FROM THE CENTER OF THE COD FOUNDATION.
- THE PRIMARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° TO 35° ANGLE (35° PREFERRED) FROM A CAR POSITIONED AT THE COD AND WITH 100% VISIBILITY. THE END CAP OF THE PRIMARY MENU BOARD SHOULD NOT BE LESS THAN 15' FROM FACE OF CURB.
- AUGER "McDONALD'S ORDER HERE CANOPY" COD/CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- A SINGLE BOLLARD SHOULD BE POSITIONED AT THE CORNER OF THE BUILDING ON THE DRIVE-THRU SIDE. IT SHOULD BE FLUSH AGAINST THE BUILDING AND FACE OF THE BOLLARD SHOULD BE TIGHT AGAINST THE BACK OF THE CURB.
- AUGER "McDONALD'S GATEWAY" SIGN FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE PRIMARY COD MUST BE 15'-0". THIS MEASUREMENT IS TAKEN PARALLEL TO THE INSIDE CURB FACE OF THE PRIMARY LANE.
- THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY COD.

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR SECONDARY LANE:

- TO POSITION THE SECONDARY COD, DRAW AN ARC WITH A 14' RADIUS THAT IS CENTERED FROM THE MIDPOINT OF THE ISLAND TIP. THEN OFFSET THE FACE OF THE CURB BY 24" TO DETERMINE THE LOCATION OF CENTER OF FOUNDATION OF THE SECONDARY COD.
- WHEN THE SECONDARY COD IS LOCATED AT 14'-0" FROM THE TIP OF THE CURBED ISLAND, THE LOOP DETECTOR IS TO BE 2'-0" FORWARD OF THE COD CENTER LINE WITH THE LOOP FACING FORWARD AND THE DETECTOR LOOP PERPENDICULAR TO THE SECONDARY COD WHEN POSSIBLE.
- THE CENTER OF THE SECONDARY MENU BOARD FOUNDATION SHALL BE 5'-9" (5'-0" MIN. AND 6'-0" MAX.) FROM CENTER OF THE COD FOUNDATION WITH THE END CAP OF THE SECONDARY MENU BOARD NOT BE LESS THAN 15' FROM FACE OF CURB.
- AUGER "McDONALD'S ORDER HERE CANOPY" COD/CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- THE SECONDARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° FROM A VEHICLE POSITIONED AT THE COD AND WITH 100% VISIBILITY.
- "ANY LANE, ANY TIME" BOLLARD SIGN MUST BE A MIN. OF 1'-6" FROM FACE OF CURB AT THE BEGINNING OF THE LANDSCAPE ISLAND. BOLLARD SIGN IS TO BE ORIENTED AT AN ANGLE OF 90° FROM THE CURB.

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 DETECTOR LOOP:

- DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENTER BOOTHS.

SIDE BY SIDE DRIVE-THRU STANDARD 1.0

PARKING INFORMATION	
TOTAL SPACES REQUIRED	45
TOTAL SPACES EXISTING	56
TOTAL SPACES PROVIDED	45*
PARKING REQUIRED: THE GREATER OF 1 PER 70 SF OF PUBLIC USE AREA OR 1 PER 2 SEATS, PLUS 1 PER 200 SF OF NONPUBLIC USE AREA. PUBLIC USE AREA: 1,548 S.F. NUMBER OF SEATS: 65. NON PUBLIC USE AREA: 2,322 S.F. (752±38; 1,548/70±23; 2,322/200±12) THUS: 33 + 12 = 45 SPACES REQUIRED.	
30 SPACES	
3 DISABLED SPACES	
30 SPACES	
11 COMPACT SPACES PER SEC. 30-485(c)	
3 DISABLED SPACES	
* 1 PARKING SPACE CREDITS: - RECYCLING BIN AND POTTED TREE ADDED AT PATIO AREA ENTRANCE (1 PARKING CREDIT)	



McDONALD'S PROJECT
CODE: 009-0788

cph
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Ft. Myers, FL 33901
Ph: 239.332.5499
Plans Prepared By:
CPH, Inc.
State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect No. AA2600926
Landscape No. LC000298

JEFFREY M. SATFIELD, P.E., State of Florida, Professional Engineer, License No. 61905. This item has been digitally signed and sealed by JEFFREY M. SATFIELD, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

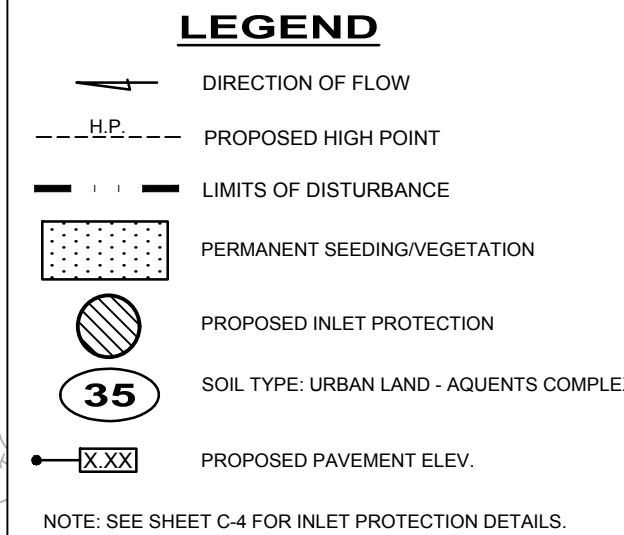
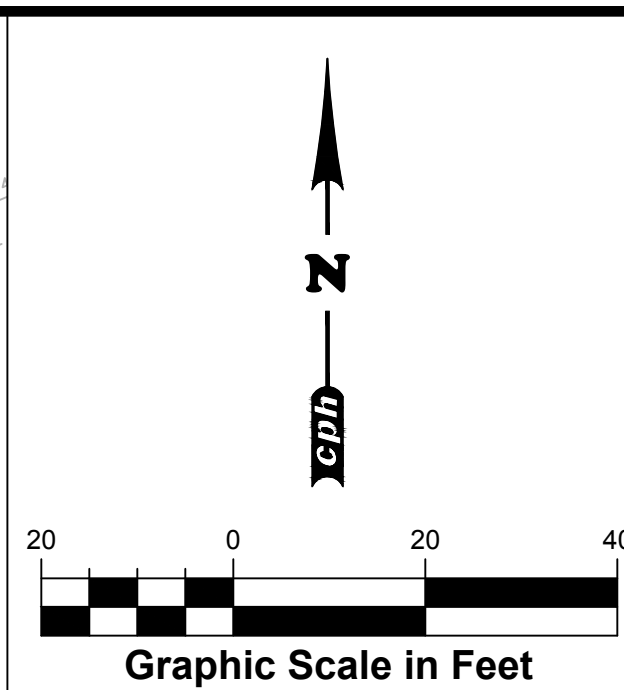
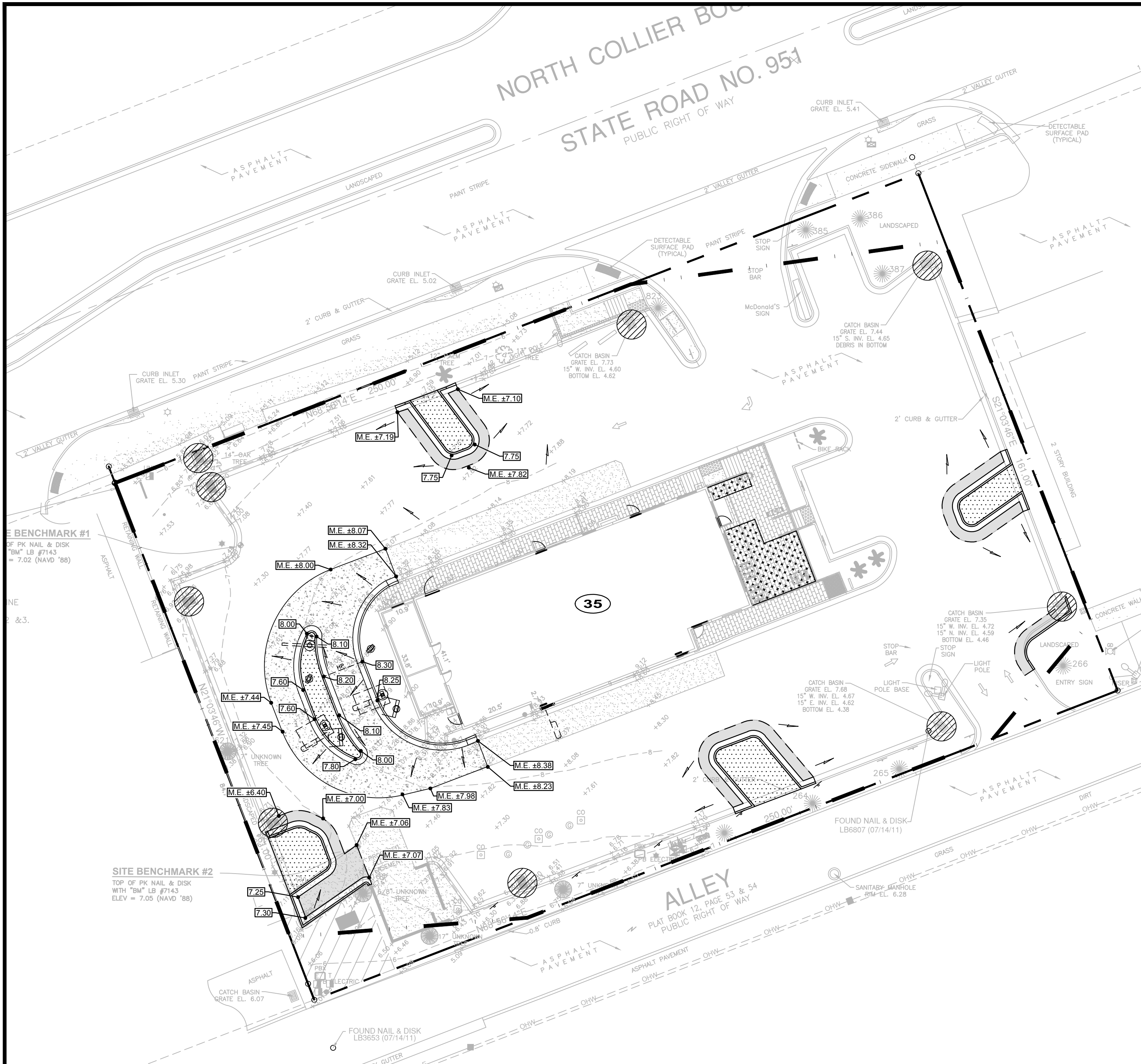
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Designed: C. PULVER
Drawn: C. PULVER
Checked: J. SATFIELD
Job No.: M29627.1
Date: 8/19 © 2020

SITE PLAN
McDonald's
MARCO ISLAND SBS
MARCO ISLAND / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.
C-2



EROSION AND SEDIMENT CONTROL PLAN NOTES

- SITE DESCRIPTION**
- A. THE SITE IS LOCATED AT 899 N. COLLIER BOULEVARD, MARCO ISLAND, FLORIDA 34145
- B. THE EXISTING CONDITION OF THE SITE IS DEVELOPED WITH AN EXISTING McDONALD'S RESTAURANT. THE SITE WILL REMAIN AT APPROXIMATELY THE SAME GRADE AND HAVE NO MAJOR EFFECT ON ADJUTING PROPERTIES.
- WETLANDS/BUFFERS**
- NO WETLANDS OR BUFFERS ARE ASSOCIATED WITH THIS PROJECT.
- PLAN INTENT**
- THE INTENT OF THIS PLAN IS TO PREVENT THE RELEASE OF SOILS, TRASH, CHEMICALS, TOXINS AND OTHER POLLUTANTS, BY WATER, AIR, VEHICLE TRANSPORT OR OTHER MEANS THAT CAN IMPACT STORM WATER QUALITY. THE CONTRACTOR SHALL ENSURE THAT THE BMPs ARE INSTALLED AND THE EXECUTION OF THE WORK IS PERFORMED TO MEET THE INTENT OF APPLICABLE LAWS, REGULATIONS AND THIS PLAN.
- GENERAL NOTES**
- A. THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 17-25-FAC AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
- B. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES. SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS.
- C. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
- IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
 - NEW AND EXISTING STORMWATER INLETS AND OUTFALL STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED IMMEDIATELY AS REQUIRED DURING THE VARIOUS STAGES OF CONSTRUCTION.
 - PERIMETER EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED.
- D. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMPs SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY.
- E. THE CONTRACTOR SHALL FURNISH, INSTALL PER THE SEQUENCE OF CONSTRUCTION, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY TEMPORARY BMPs. THE CONTRACTOR WILL FURNISH AND INSTALL ALL NECESSARY PERMANENT BMPs.
- F. THE CONTRACTOR SHALL ADJUST, ADD OR MODIFY BMPs AS NECESSARY TO COMPLY WITH THE INTENT OF THE PLAN FOR NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL CONSULT WITH THE DEC PRIOR TO ADJUSTING, ADDING OR MODIFYING BMPs THAT AFFECT THE HYDRAULICS OF THE SITE OR BEFORE ADDING BMPs NOT DETAILED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
- G. THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROL AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL OR RECEIVING WATER.
- H. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BEST MANAGEMENT PRACTICES (BMPs). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FOOT INDEXES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE APPLICABLE JURISDICTIONAL AUTHORITIES.
- I. SEPARATE PERMIT COVERAGE MUST BE OBTAINED BY THE CONTRACTOR UNDER THE DEPARTMENT'S GENERAL PERMIT FOR DISCHARGE OF PRODUCE GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO SUBSECTION 62.401(3)(a)2, F.A.C.
- STABILIZATION**
- A. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED AND WILL REMAIN UNDISTURBED FOR 7 DAYS OR MORE. STABILIZE BY COVERING WITH ADEQUATE AMOUNTS OF MULCH OVER SEED AND PERIODICALLY WATER TO PROMOTE AND MAINTAIN GROWTH OF THE TEMPORARY GROUND COVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.
- B. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.
- C. ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4H:1V SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.

- DUST CONTROL**
- A. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
- B. AS REQUIRED AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.
- C. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES. IF REQUIRED, DUST CONTROL FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL FOR A SILT FENCE EXCEPT THE MINIMUM HEIGHT SHALL BE 4 FEET.
- WASTE MANAGEMENT**
- A. THE CONTRACTOR SHALL ENSURE THAT ALL WASTE AND DEBRIS ARE MANAGED DAILY SUCH THAT THEY WILL NOT IMPACT STORMWATER OR LEAVE THE PERMITTED AREA, AND DISPOSED OF PROPERLY IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS.
- B. THE CONTRACTOR SHALL ENSURE THAT ALL CHEMICALS, OILS, FUELS, HAZARDOUS WASTE, UNIVERSAL WASTE AND TOXIC SUBSTANCES ARE PROPERLY MANAGED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT WASTE IS NOT DISCHARGED FROM THE SITE, AND DOES NOT IMPACT STORMWATER OR GROUNDWATER.
- C. THE CONTRACTOR SHALL PROVIDE APPROPRIATE AND ADEQUATE WASHOUT FACILITIES TO ENSURE THAT CHEMICALS AND TOXIC SUBSTANCES ARE NOT DISCHARGED FROM THE SITE, AND DO NOT IMPACT STORMWATER OR GROUNDWATER. (E.G. CONCRETE/MASONRY WASHOUT, PAINT WASHOUT, ETC.) THE CONTRACTOR SHALL CLEAN UP SPILLS PROMPTLY AND ENSURE THAT WASHOUT AREAS ARE PROPERLY MAINTAINED TO PROVIDE ADEQUATE VOLUME TO PREVENT OVERFLOW.
- D. THE CONTRACTOR SHALL PROVIDE ADEQUATE SANITARY FACILITIES FOR SITE PERSONNEL, MAINTAIN THROUGHOUT CONSTRUCTION, AND PROVIDE FOR PROPER DISPOSAL IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. SANITARY FACILITIES SHALL BE PROPERLY SECURED TO PREVENT TIPPING.
- E. WHEN A SPILL OF REPORTABLE QUANTITIES IS DISCOVERED ON THE SITE, THE CONTRACTOR SHALL CLEAN UP ALL SPILLED MATERIALS AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITIES IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. THE OWNER AND PROJECT ENGINEER. THE CONTRACTOR SHALL RETAIN CLEANUP INFORMATION AS WELL AS DISPOSAL MANIFESTS.
- MATERIALS MANAGEMENT AND EQUIPMENT STAGING AND MAINTENANCE**
- A. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF. STOCKPILED MATERIAL SHALL BE COVERED OR ENCLOSED WITH SEDIMENT CONTAINMENT DEVICES.
- B. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES OR SILT SCREENS AROUND, AND SEDIMENT BARRIERS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OR OIL, GREASE, LUBRICANTS, OR OTHER CONTAMINANTS. CONTRACTOR SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS IMMEDIATELY AFTER ANY OCCURRENCE.
- C. THE CONTRACTOR SHALL ENSURE THAT ALL TOXIC / HAZARDOUS SUBSTANCES AND CHEMICALS ARE PROPERLY STORED, OUT OF THE WEATHER, AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL ENSURE THAT THESE PRODUCTS ARE STORED AND USED IN SUCH A MANNER THAT WILL NOT NEGATIVELY IMPACT STORMWATER, GROUNDWATER OR PROTECTED SPECIES.
- D. THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS, EQUIPMENT, DEBRIS, WASTE, TRAILERS, AND OTHER SUPPORT RELATED ITEMS ARE CONTAINED WITHIN THE PROJECT LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL ENSURE THAT THE STORAGE AND USE OF SUCH ITEMS DOES NOT NEGATIVELY IMPACT STORMWATER OR GROUNDWATER.
- OFFSITE VEHICLE TRACKING**
- A. THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION EXIT IS USED BY ALL VEHICLES AND EQUIPMENT ENTERING OR LEAVING THE JOBSITE. THE CONTRACTOR SHALL MONITOR AND MAINTAIN THE CONSTRUCTION EXIT TO ENSURE THAT NO SOILS ARE TRACKED OFFSITE BY TIRES OR TRACKS, AND THAT NO SOILS ARE SPILLED BY TRUCKS OR EQUIPMENT LEAVING THE SITE. ALL TRACKED OR SPILLED SOILS SHALL BE SHOVELLED OR SWEEPED FROM THE ROADWAY AND RETURNED TO THE SITE. WATER SHALL NOT BE USED TO CLEAN THE SOILS FROM THE ROADWAY UNLESS THE WATER AND SOILS ARE RECOVERED BY THE USE OF A VACUUM TRUCK OR SIMILAR DEVICE.
- FERTILIZERS, HERBICIDES AND PESTICIDES**
- A. THE CONTRACTOR SHALL ENSURE THAT ALL FERTILIZERS, HERBICIDES, PESTICIDES AND SIMILAR PRODUCTS ARE PROPERLY STORED, OUT OF THE WEATHER, AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL ENSURE THAT THESE PRODUCTS ARE USED IN SUCH A MANNER THAT WILL NOT NEGATIVELY IMPACT STORMWATER, GROUNDWATER OR PROTECTED SPECIES.
- B. NUTRIENTS SHALL BE APPLIED ONLY AT RATES NECESSARY TO ESTABLISH AND MAINTAIN VEGETATION.
- INSPECTIONS AND MAINTENANCE**
- A. THE CONTRACTOR SHALL INSPECT BMPs (I.E. DISCHARGE LOCATIONS, CONSTRUCTION EXIT, PERIMETER CONTROLS, INLET PROTECTION, STABILIZATION, EROSION CONTROL, DOCUMENTATION, WASTE DISPOSAL, DISPOSAL AREAS, ETC.) TO DETERMINE IF CONSTRUCTION ACTIVITIES HAVE ALTERED THE EFFECTIVENESS OF BMPs. CONFIRM BMPs ARE ACHIEVING COMPLIANCE, AND MAINTAIN BMPs AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.50 INCHES OR GREATER.
- B. ANY MAINTENANCE, REPAIR AND NECESSARY REVISIONS TO BMP ITEMS SHALL BE ADDRESSED IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTOR IDENTIFICATION OF THE ISSUE. UNLESS OTHERWISE SPECIFIED, ACCUMULATED SEDIMENTS SHOULD BE REMOVED BEFORE THEY REACH ONE-HALF OF THE CAPACITY OF THE CONTROL DEVICE.
- REFERENCES**
- THE CONSTRUCTION PLANS AND SPECIFICATIONS FOR JOB #M29627.1 AS PREPARED BY CPH, INC. ON AUGUST 9, 2019 ARE HEREBY REFERENCED AND MADE A PART OF THIS PLAN.

SEQUENCE OF CONSTRUCTION

THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION AS DESCRIBED BELOW. IF THE CONTRACTOR FINDS THAT THE SEQUENCE NEEDS TO BE MODIFIED, THE CONTRACTOR SHALL CONTACT THE DEC FOR FURTHER DIRECTION. THE CONTRACTOR SHALL DISTURB ONLY THOSE AREAS NECESSARY TO INSTALL THE BMPs UNTIL DIRECTED IN THE SEQUENCE TO BEGIN CLEARING AND GRUBBING OPERATIONS. ALL TEMPORARY BMPs SHALL BE REPAIRED AND MAINTAINED UNTIL STABILIZATION HAS OCCURRED AND THERE IS NO RISK OF DISCHARGE, THEN THEY SHALL BE REMOVED.

- INSTALL PERIMETER CONTROLS IMMEDIATELY DOWNSTREAM OF THE PLANNED LOCATION OF THE CONSTRUCTION EXIT
- INSTALL STABILIZED CONSTRUCTION EXIT
- INSTALL REMAINING PERIMETER CONTROLS
- INSTALL TEMPORARY PARKING AND STORAGE AREAS (TRAILER, PARKING, LAY DOWN, SANITARY FACILITIES, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOIL WASTE CONTAINERS, ETC.)
- CONSTRUCT AND STABILIZE THE SEDIMENT BASINS AND SEDIMENT TRAPS WITH APPROPRIATE OUTFALL STRUCTURES
- CONSTRUCT AND STABILIZE HYDRAULIC CONTROLS (DITCHES, SWALES, DIKES, CHECK DAMS, ETC.)
- BEGIN DEMOLITION, CLEARING AND GRUBBING OPERATIONS AS APPLICABLE
- BEGIN CONSTRUCTION OF BUILDING PAD AND STRUCTURES
- TEMPORARILY SEED, IMMEDIATELY AND THROUGHOUT CONSTRUCTION, DENUDE AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE
- INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS
- INSTALL RIP RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED
- INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED
- PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE
- PREPARE SITE FOR PAVING
- PAVE SITE
- INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES
- COMPLETE GRADING AND INSTALL PERMANENT STABILIZATION OVER ALL AREAS
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED)

ACREAGE SUMMARY

TOTAL SITE AREA	0.92 AC.
ON-SITE DISTURBED AREA	0.88 AC.
OFF-SITE DISTURBED AREA	0.00 AC.
TOTAL DISTURBED AREA	0.88 AC.



McDonald's PROJECT
CODE: 009-0788



Plans Prepared By:
CPH, Inc.
State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect No. AA26000296
Landscape No. LC000298

JEFFREY M. SATFIELD, P.E., State of Florida, Professional Engineer, License No. 61905. This item has been digitally signed and sealed by JEFFREY M. SATFIELD, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

PER CITY OF MARCO ISLAND COMMENTS		PER CITY OF MARCO ISLAND COMMENTS	
Date	Revision	Date	Revision
03/30/20		12/02/19	
No		No	

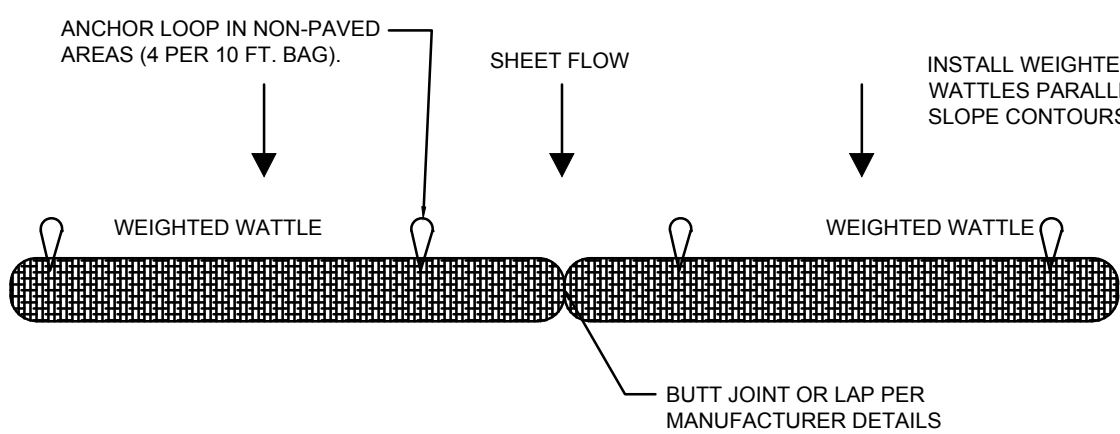
Designed: C. PULVER
Drawn: C. PULVER
Checked: J. SATFIELD
Job No.: M29627.1
Date: 8/19 © 2020

GRADING AND EROSION AND SEDIMENTATION CONTROL PLAN

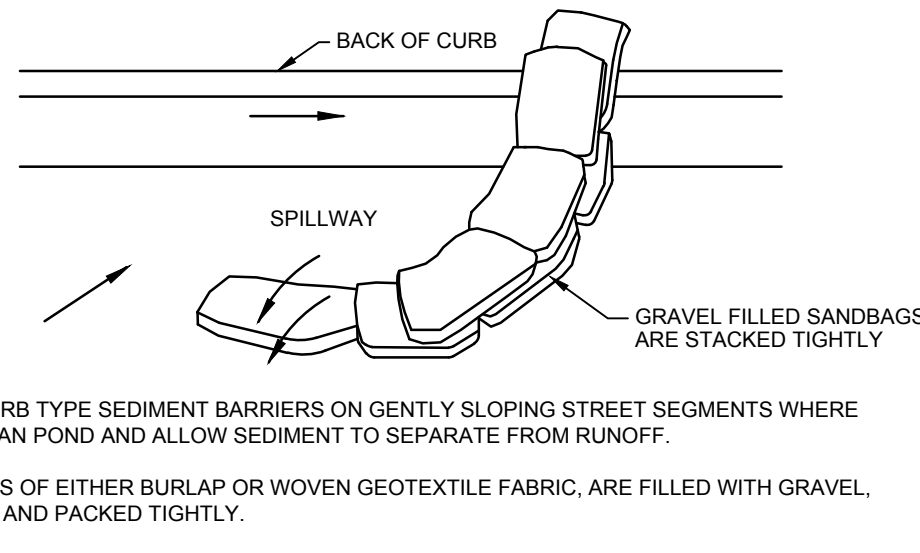
McDonald's
MARCO ISLAND SBS
MARCO ISLAND / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

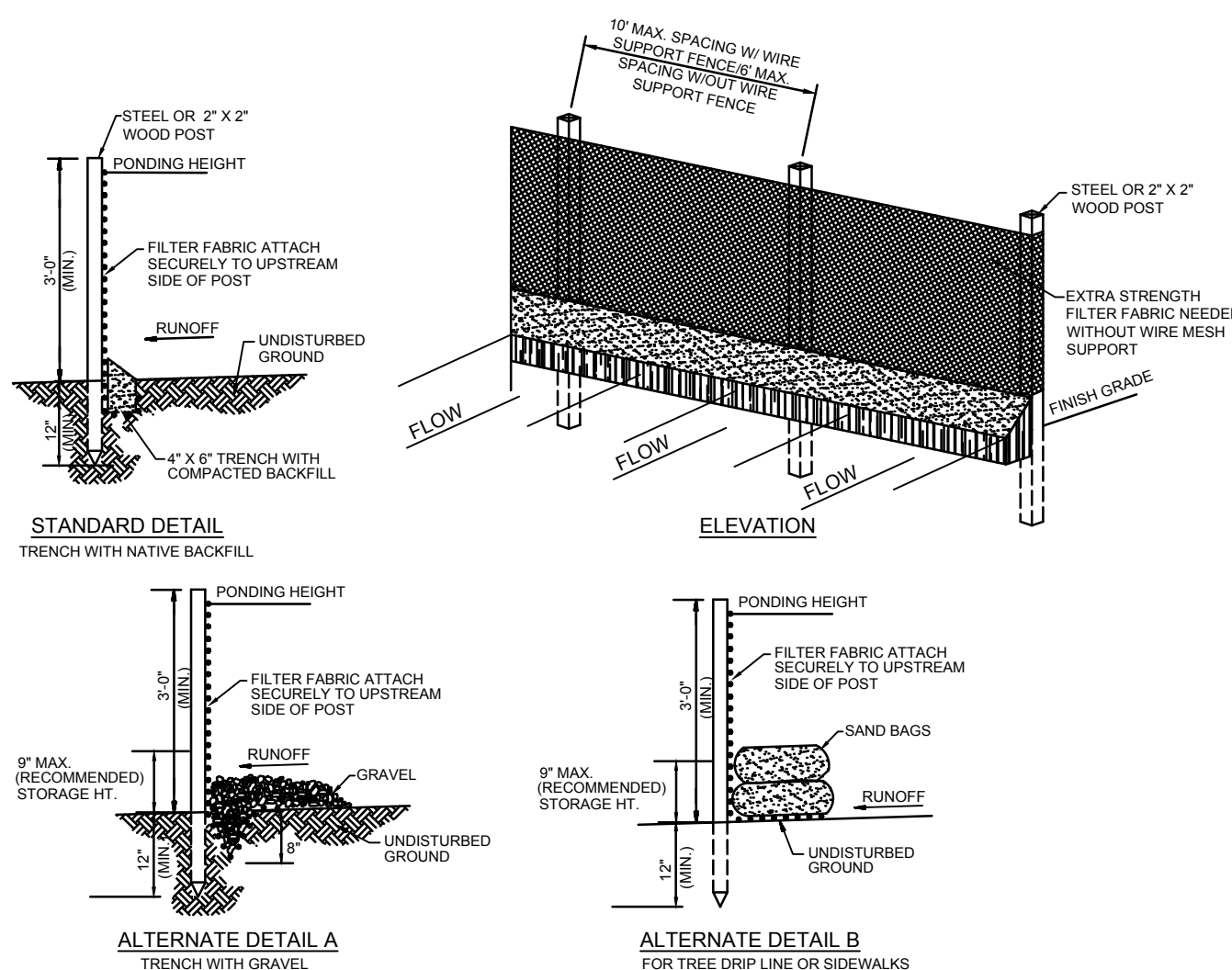
Sheet No.
C-3



WEIGHTED WATTLE DETAIL
N.T.S.

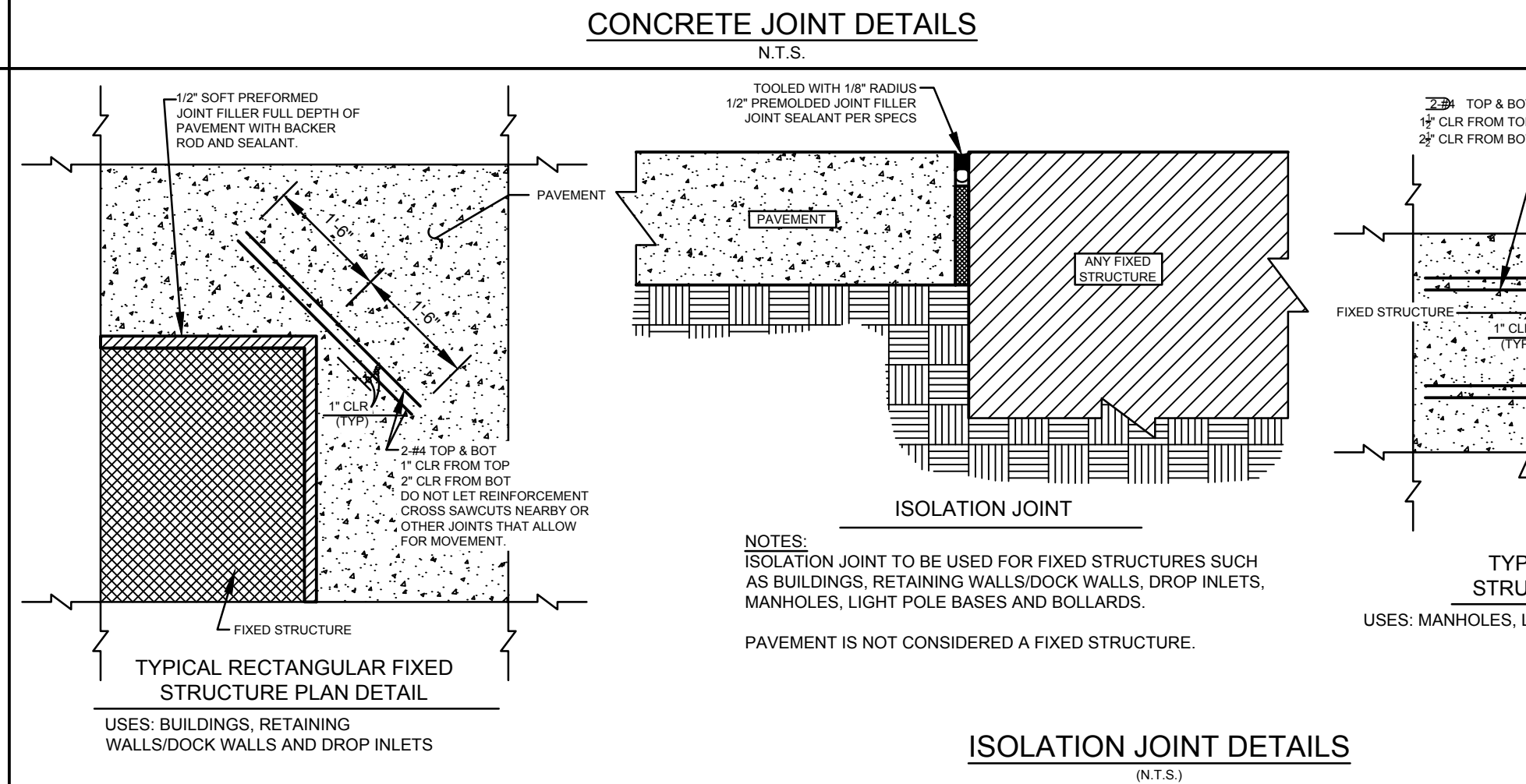
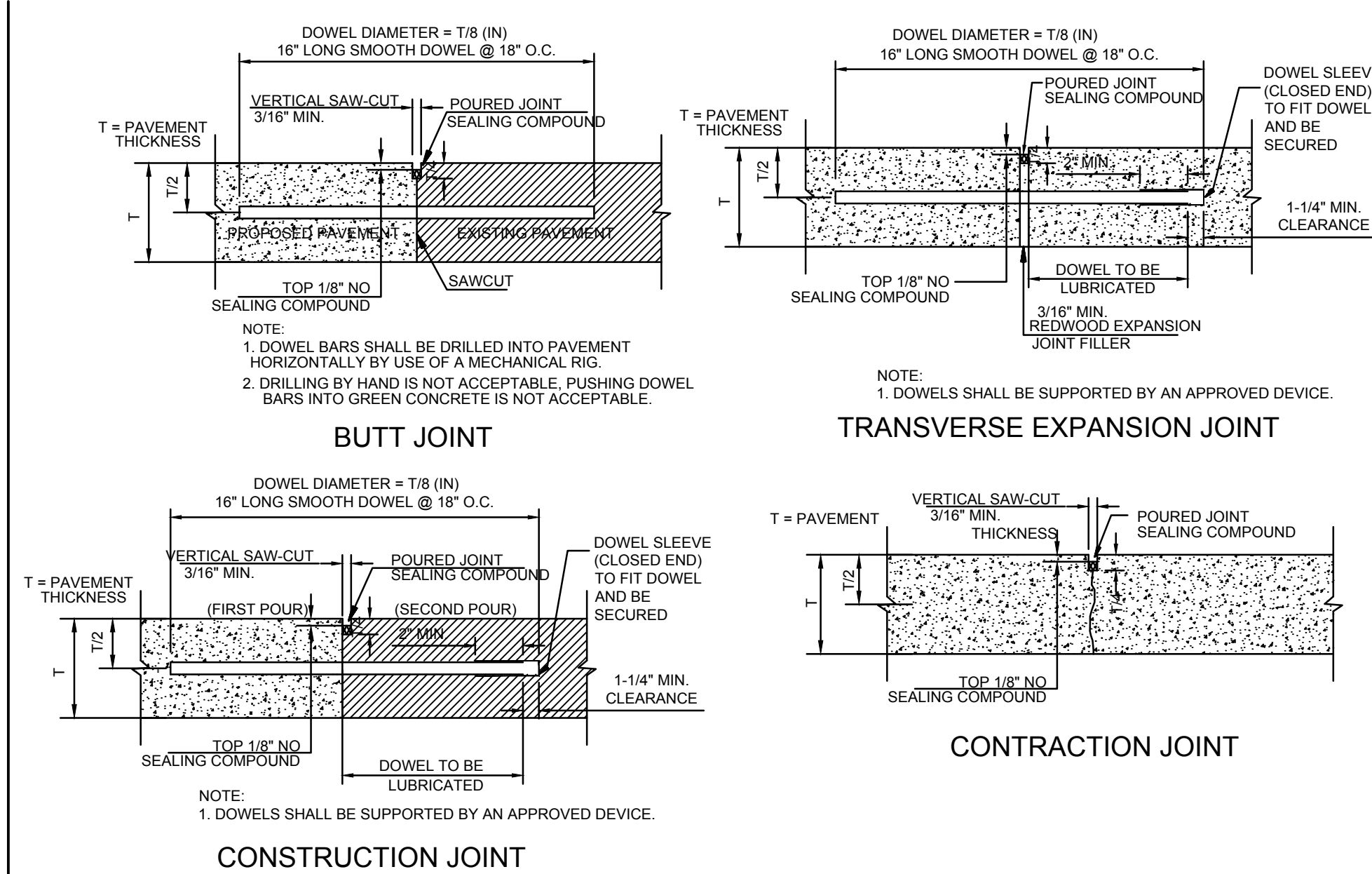
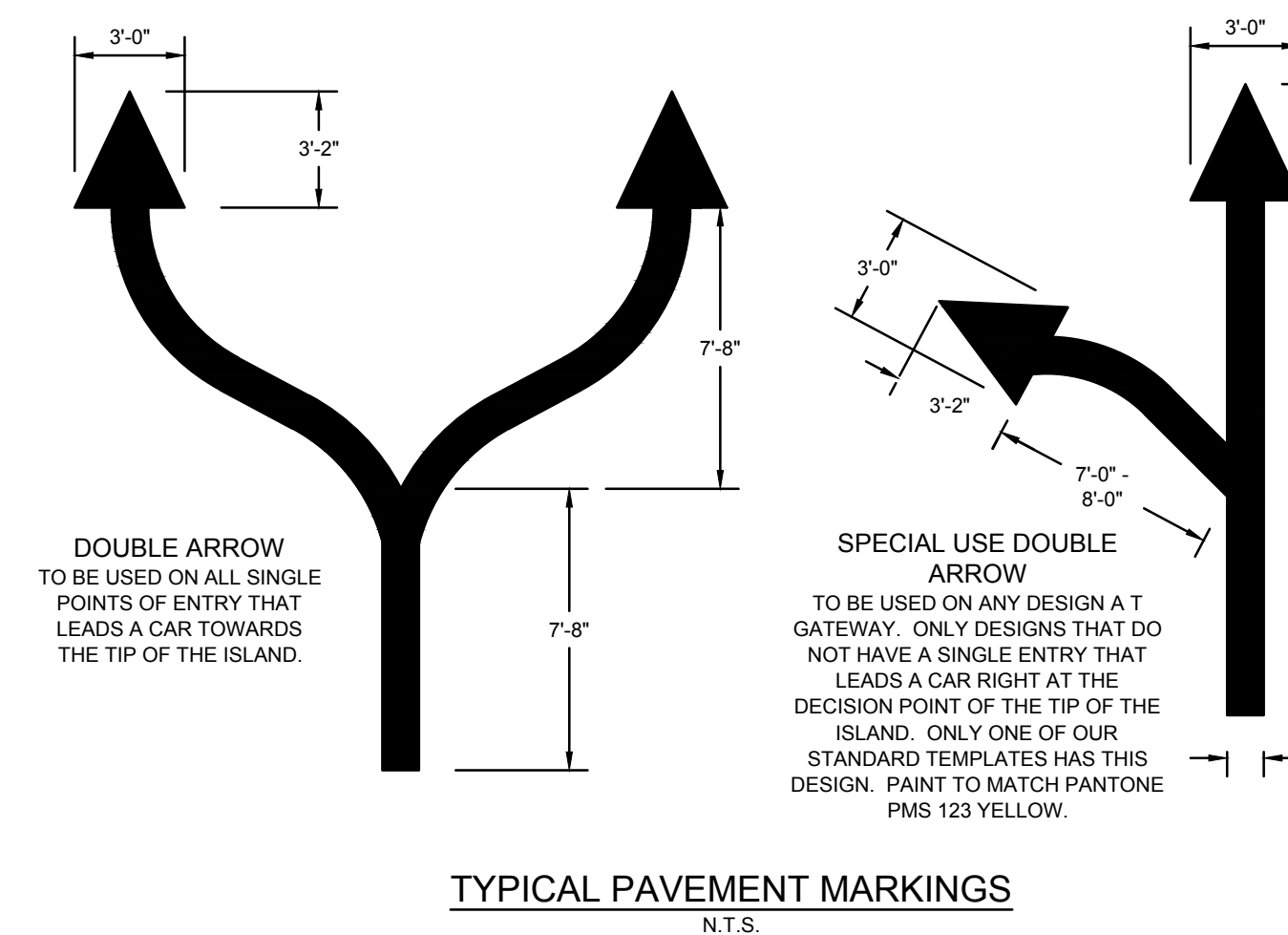


CURB LINE PROTECTION DETAIL
N.T.S.



SEDIMENTATION / SILT FENCE
N.T.S.

NOTE:
CONTRACTOR SHALL PAY CLOSE ATTENTION WHEN CLEARING AND/OR GRADING THE SITE TO ENSURE THAT WHEN EXISTING ROOTS ARE ENCOUNTERED THEY ARE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS. CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING THE DAMAGE OF THE EXISTING ROOT SYSTEMS.



DIMENSION & TYPE

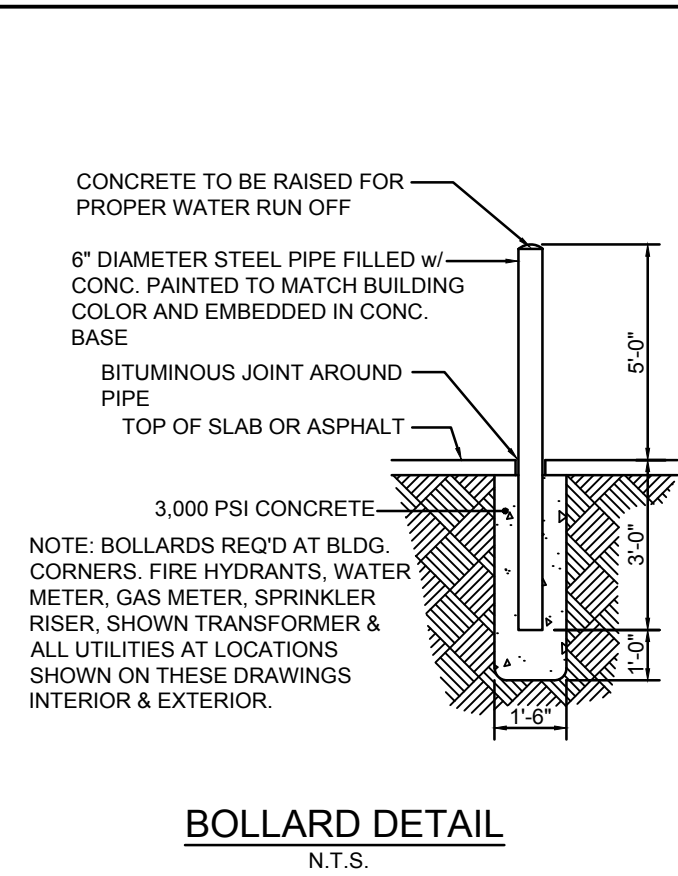
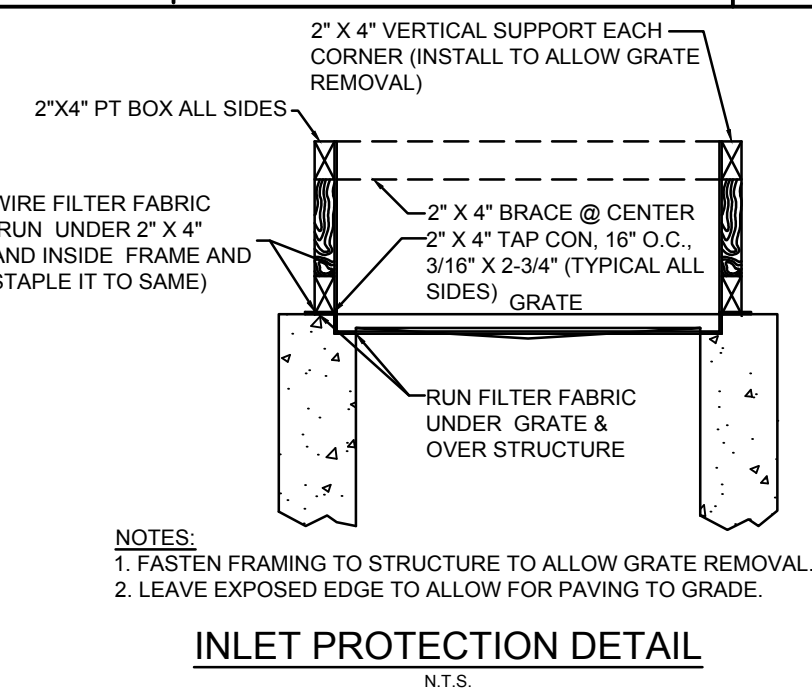
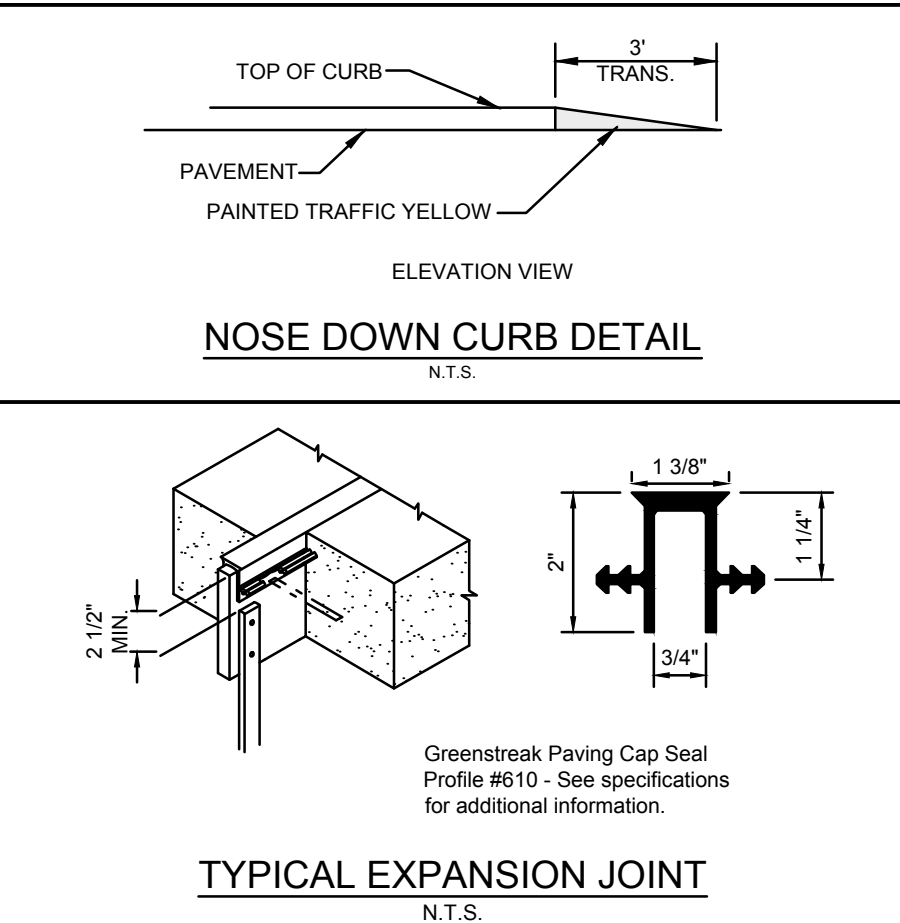
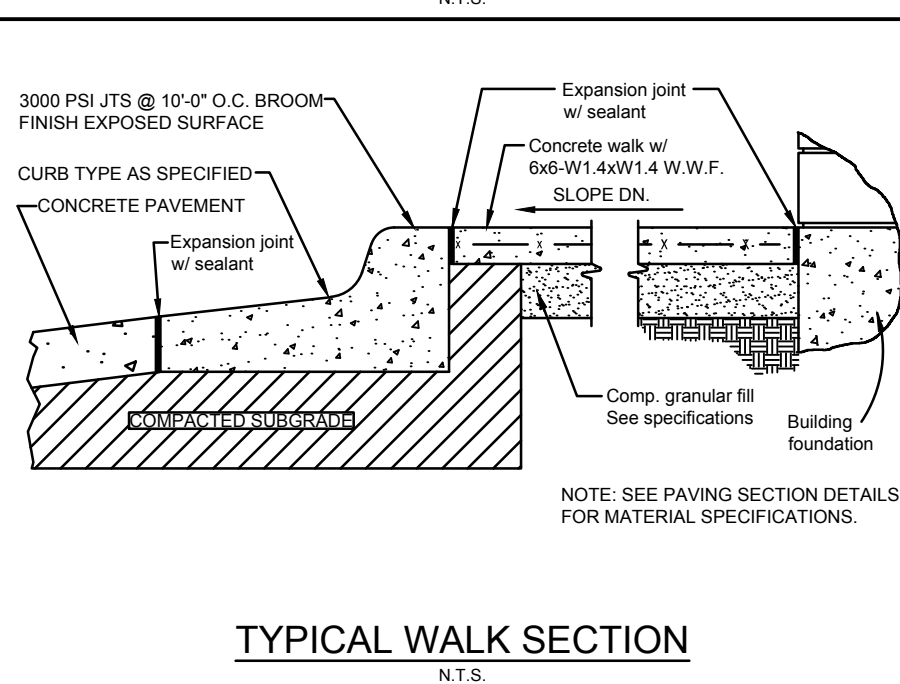
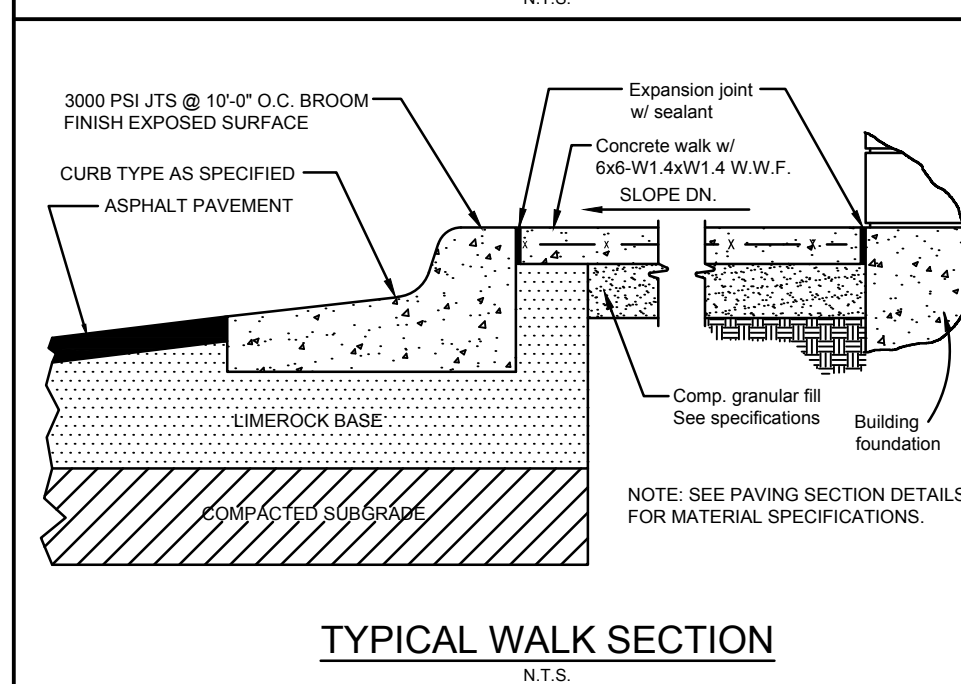
Concrete Section	C	D	
Loading/Dumpster	12"	6"	
Drive-thru	12"	6"	

4000 PSI conc. paving (min.) w/ wire mesh

Compacted Subgrade as specified in soils report

Note: Refer to Soils Report for complete direction.

CONCRETE PAVING SECTION



LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4532	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4532	20 %
PUNCTURE	ASTM D-4533	120 LBS
TEAR RESIST	ASTM D-4533	120 LBS
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPROXIMATE OPENING SIZE	ASTM D-4355	200 MICRONS SIEVE
FLOW RATE	ASTM D-4461	90 GAL/MIN/SQ FT
PERMEABILITY	ASTM D-4461	1.0 CM/SEC
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4532	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4532	20 %
PUNCTURE	ASTM D-4533	135 LBS
TEAR RESIST	ASTM D-4533	135 LBS
TRAPEZOID TEAR	ASTM D-4533	135 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPROXIMATE OPENING SIZE	ASTM D-4355	200 MICRONS SIEVE
FLOW RATE	ASTM D-4461	90 GAL/MIN/SQ FT
PERMEABILITY	ASTM D-4461	1.0 CM/SEC