

TOWN OF GLASTONBURY ENGINEERING DEPARTMENT PROPOSED INTERSECTION IMPROVEMENTS GRISWOLD - HOUSE - HARRIS STREETS

State Project No. 53-187

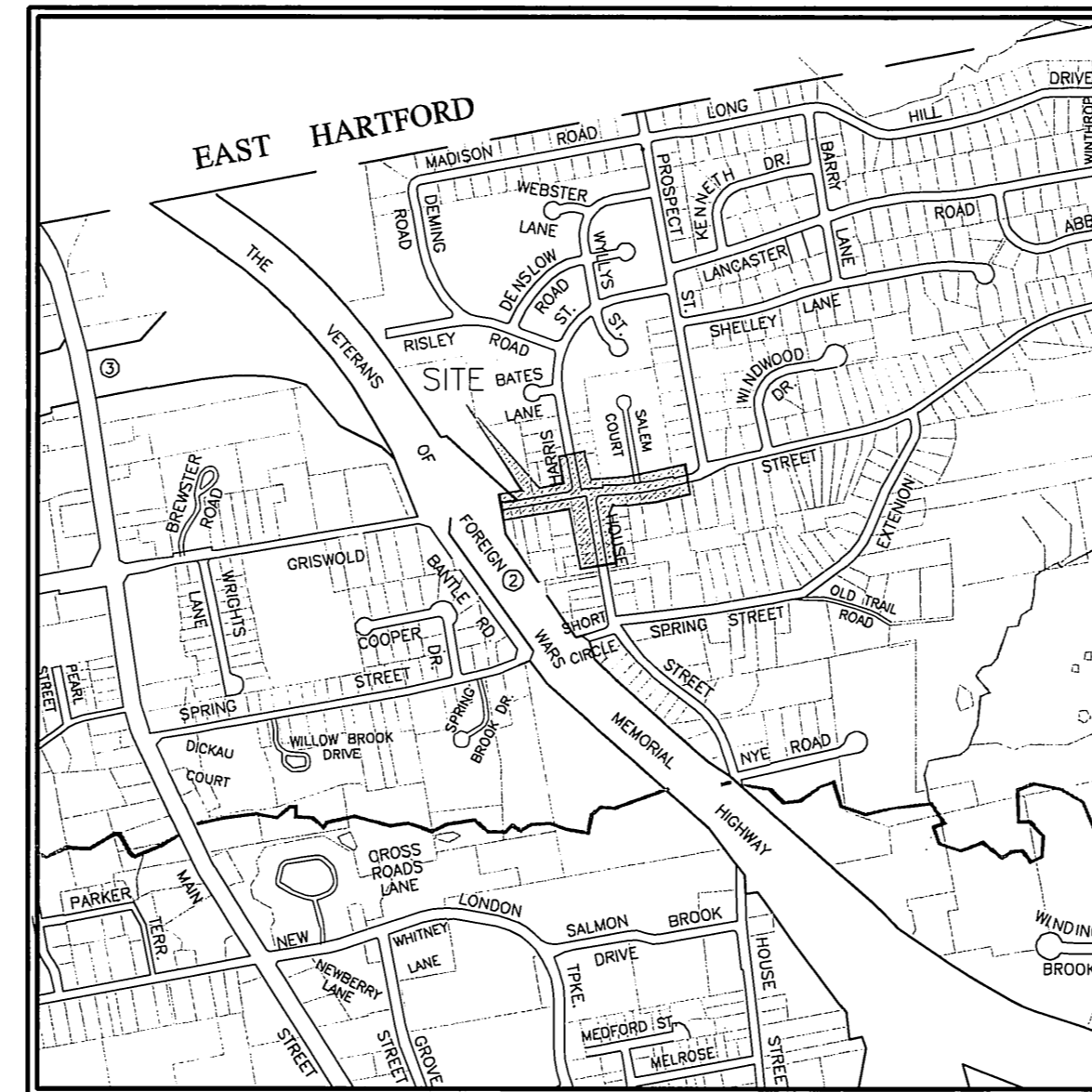
located in

GLASTONBURY, CONNECTICUT

PW-1211

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LOCATION MAP

SCALE: 1"=1000'

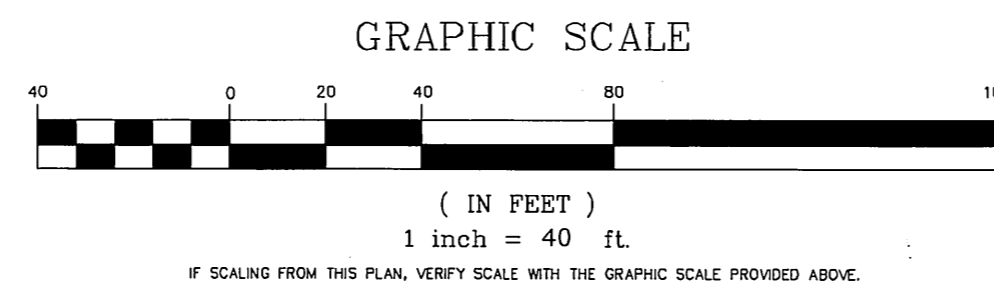
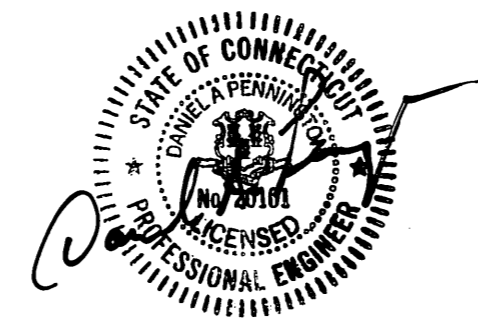
APRIL 2015

ISSUED FOR CONSTRUCTION

RICHARD J. JOHNSON
TOWN MANAGER

DANIEL A. PENNINGTON
MANAGER OF PHYSICAL SERVICES/TOWN ENGINEER

- MAPPING NOTES:
1. THERE IS NO BOUNDARY/DETERMINATION OPINION.
 2. NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.
 3. HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 - (NAD83).
 4. ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 - (NAVD88).
 5. THIS PLAN WAS COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
 6. REPRODUCTIONS OF THIS PLAN ARE INVALID IF THEY DO NOT BEAR THE IMPRESSION SEAL OF THE UNDERSIGNED LAND SURVEYOR AND/OR PROFESSIONAL ENGINEER.

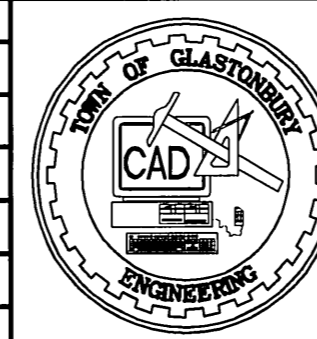


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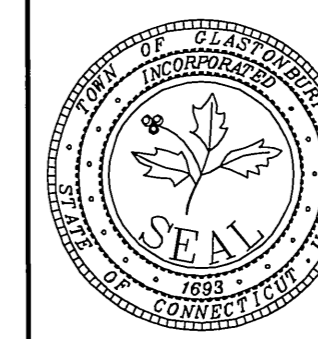
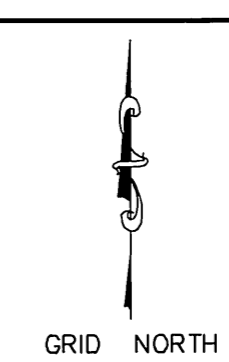
MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE.
H:\DWG\Streets\Griswold St\PW-1211 Griswold - Harris - House St Int\Griswold-Harris-House St Int-Const.dwg

STP 53-187
PW-1211

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	4/2/2015



SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	7/11/2013
CHECKED BY: S.M.B.	4/2/2015
APPROVED BY: D.A.P.	4/2/2015
ST. FILE:	
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.	



TITLE SHEET
INTERSECTION IMPROVEMENTS
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

SHEET NO.
1
OF 36

DETAILED ESTIMATE SHEET

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

P = FEDERAL AID PARTICIPATING
NP = FEDERAL AID NON PARTICIPATING
FOR INTERNAL USE ONLY
NOT A LEGAL DEFINITION

FOR THE CONSTRUCTION OF GRISWOLD - HOUSE - HARRIS INTERSECTION IMPROVEMENT IN THE TOWN OF GLASTONBURY

FROM STA. 24+50 TO STA. 31+65 LENGTH 715 ft; BASE COURSE VARIES WIDTH VARIES ft; DEPTH 0.25 ft SURFACE COURSE HMA 0.5" WIDTH VARIES ft; DEPTH -- in;
FROM STA. 4+48 TO STA. 9+33 LENGTH 485 ft; BASE COURSE VARIES WIDTH VARIES ft; DEPTH 0.25 ft SURFACE COURSE HMA 0.5" WIDTH VARIES ft; DEPTH -- in;

ITEM NUMBER	ITEM	UNIT	0408170	0408171	0408173	0207000	0212300A	0406235	404101A	0202513A	0406285A	0201001A	0202300A	0202100A	0202529	0209001	0202451A	0921005A	0921001A	0921002A	0922001A	0922501A	0915001	0210100A	0210820	0219001A	0219011A	0210017A	0210018A	0944000A	0950005A	0601589A	095208A	0905108A	0905014A	0913817A	0952001A	0975002A	0971001A	0970007A	0970005A	TRENCH	EXCAVATION				
GRISWOLD STREET	HMA S1.0	TON	700	870	160	320	820	1,026	276	700	2,760	L.S.	1,500	12	1,790	2,370	35								L.S.	1	400	10	L.S.	L.S.	2,300	2,300	L.S.	105	110	30	10	L.S.	L.S.	L.S.	800	1					
SUBTOTAL			700	870	160	320	820	1,026	276	700	2,760	L.S.	1,500	12	1,790	2,370	35								L.S.	1	400	10	L.S.	L.S.	2,300	2,300	L.S.	105	110	30	10	L.S.	L.S.	L.S.	800	1					
UNASSIGNED																																															
TOTALS			700	870	160	320	820	1,026	276	700	2,760	L.S.	1,500	12	1,790	2,370	35								L.S.	1	400	10	L.S.	L.S.	2,300	2,300	L.S.	105	110	30	10	L.S.	L.S.	L.S.	800	1					

ITEM NUMBER	ITEM	UNIT	0951251A	095120A	0951005A	0951006	0951084A	0951781A	09517801A	1307260A	1302081A	128602A	1286928A	122013A	0977001	0977002	0979003A	0977602	0977602	120911A	120912A	120913	TEMP MARKINGS	PAVEMENT MARKINGS	UNINTERRUPTIBLE POWER SUPPLY	FEDERAL	NON-PARTICIPATING	ITEMS																			
GRISWOLD STREET	15" RCP CLASS V	L.F.	148	6	5	1								L.S.	42	180	120	40	10				3,000	500	2,100	400	1,150				400	2,100	1,150										1				
SUBTOTAL			148	6	5	1								L.S.	42	180	120	40	10				3,000	500	2,100	400	1,150				400	2,100	1,150											1			
UNASSIGNED																																															
TOTALS			148	6	5	1								L.S.	42	180	120	40	10				3,000	500	2,100	400	1,150				400	2,100	1,150											1			

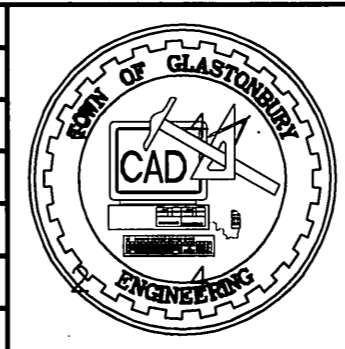
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HARRIS / HOUSE / GRISWOLD ST. INT.	ROCK IN FOUNDATION EXCAV.	V.F.	20	4	5	1	355			3	2	4	1	1	2	1	4	8	5	3	8	L.S.	1	1	1	0	1	3	1	1	1	3	1	100	150	280	720	665	470	300	1	1						1				
INTERCONNECTION	TRAFFIC CONTROL FOUNDATION MAST ARM	EA.																																																		
SUBTOTAL			20	4	5	1	605	370	500	3	3	4	1	1	2	1	4	8	5	3	8	L.S.	1	2	1	1	2	9	2	1	1	2	5	2	100	2315	430	720	665	470	425	1	1	925	90	3	2	1				
UNASSIGNED																																																				
TOTALS			20	4	5	1	605	370	500	3	3	4	1	1	2	1	4	8	5	3	8	L.S.	1	2	1	1	2	9	2	1	1	2	5	2	100	2315	430	720	665	470	425	1	1	925	90	3	2	1				

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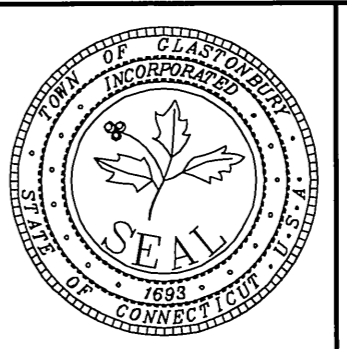
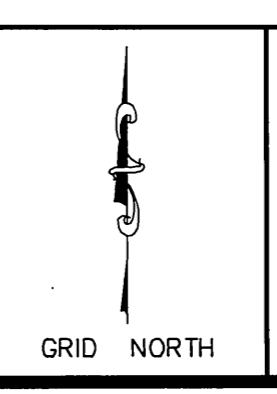


STP 53-187
PW-1211

DRAWING ISSUE STATUS	
NO.	DESCRIPTION
1.	ISSUED FOR CONSTRUCTION 4/2/2015
NO.	DATE



SCALE: AS SHOWN	
DATE:	
DRAWN BY: C.F.S.	12/20/2013
CHECKED BY: S.M.B.	4/2/2015
APPROVED BY: D.A.P.	4/2/2015
ST. FILE:	

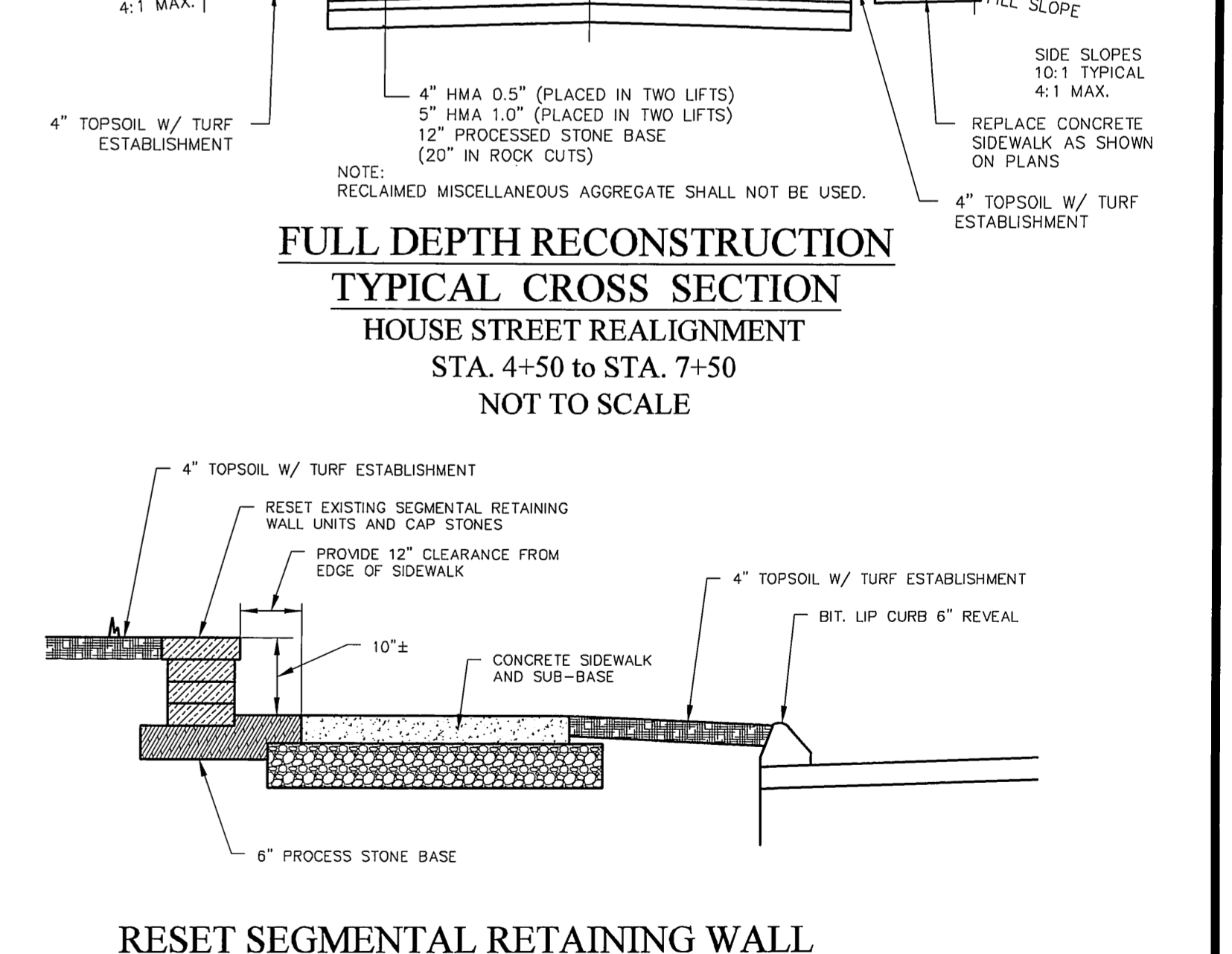
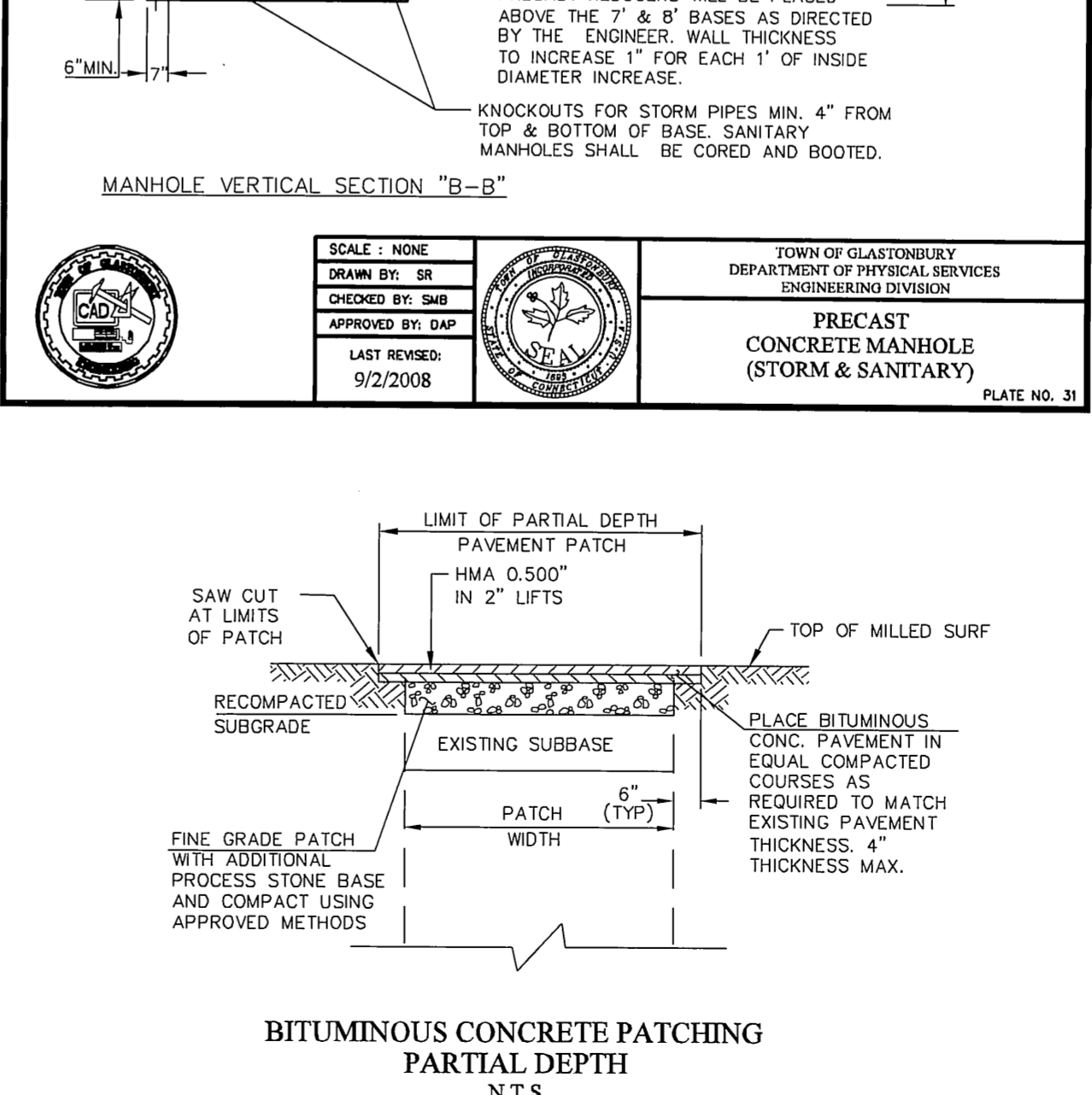
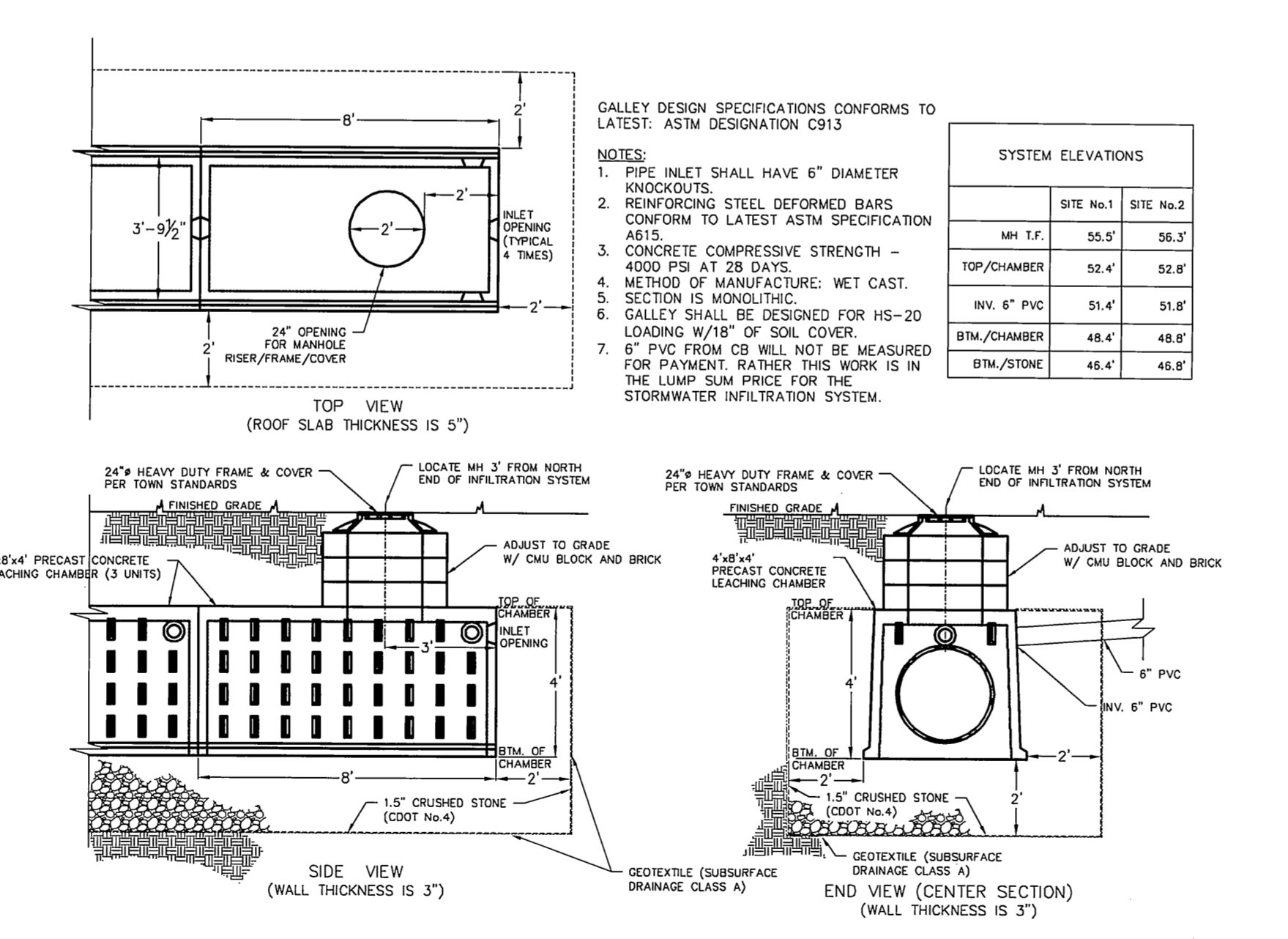
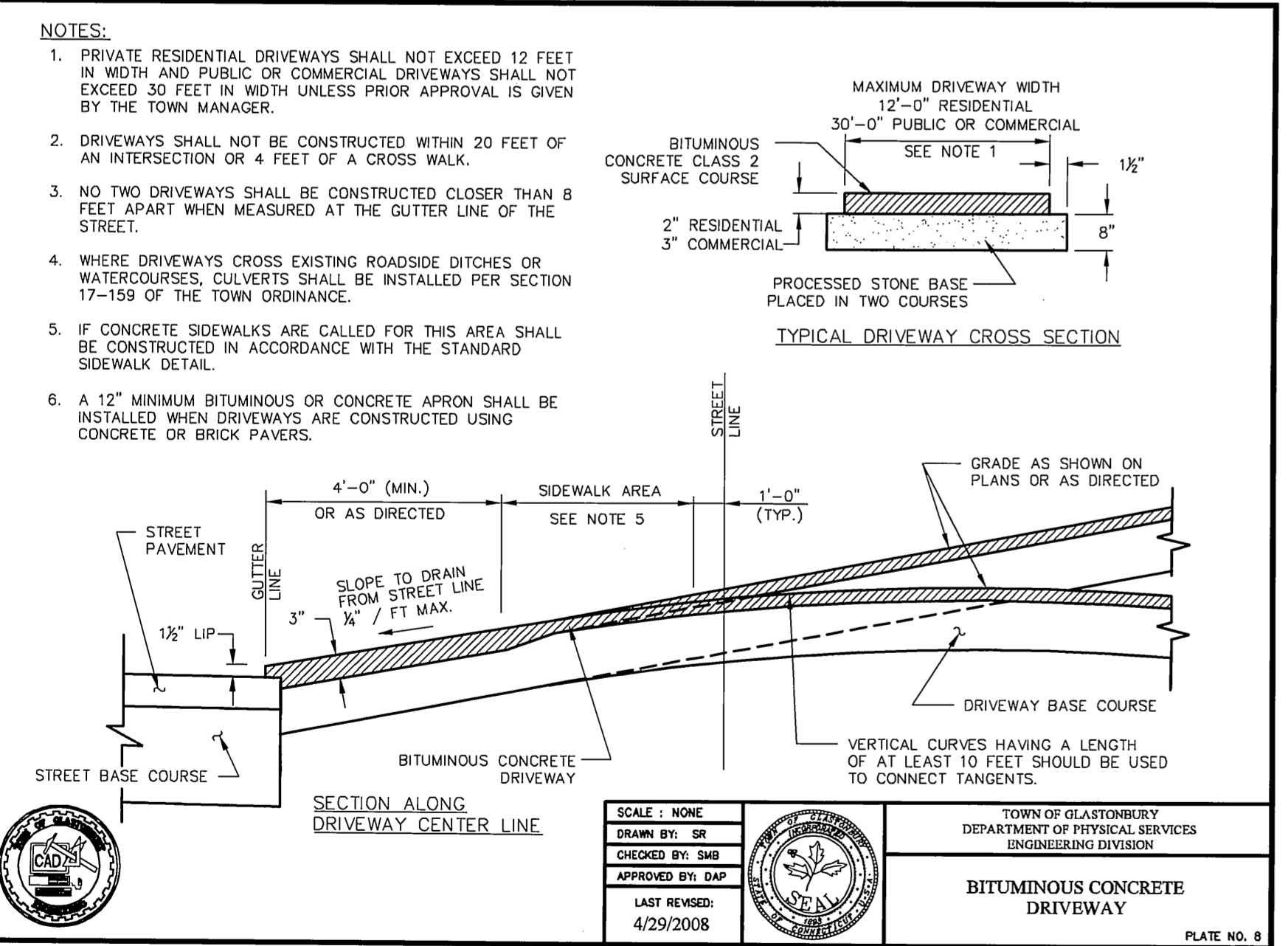
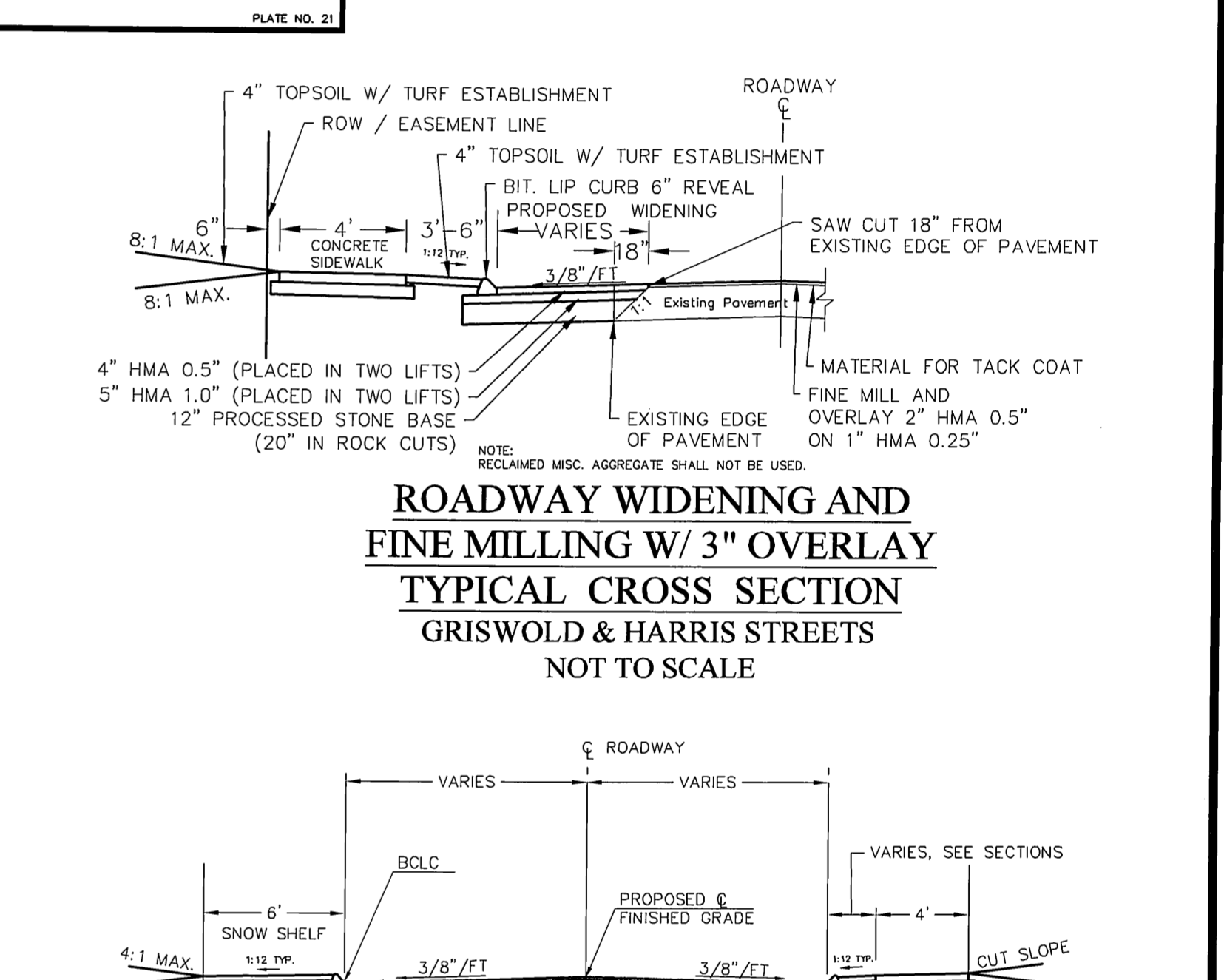
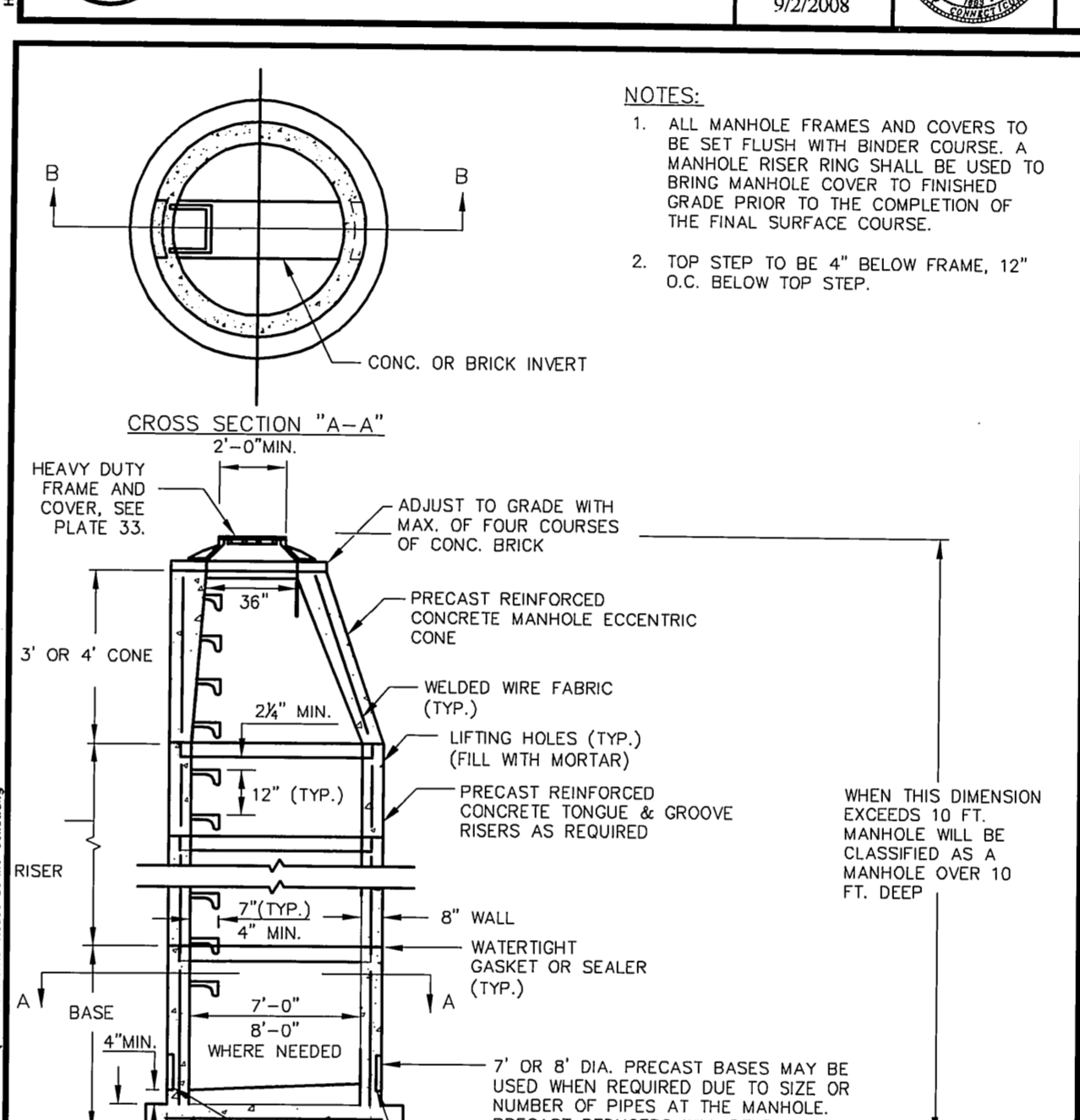
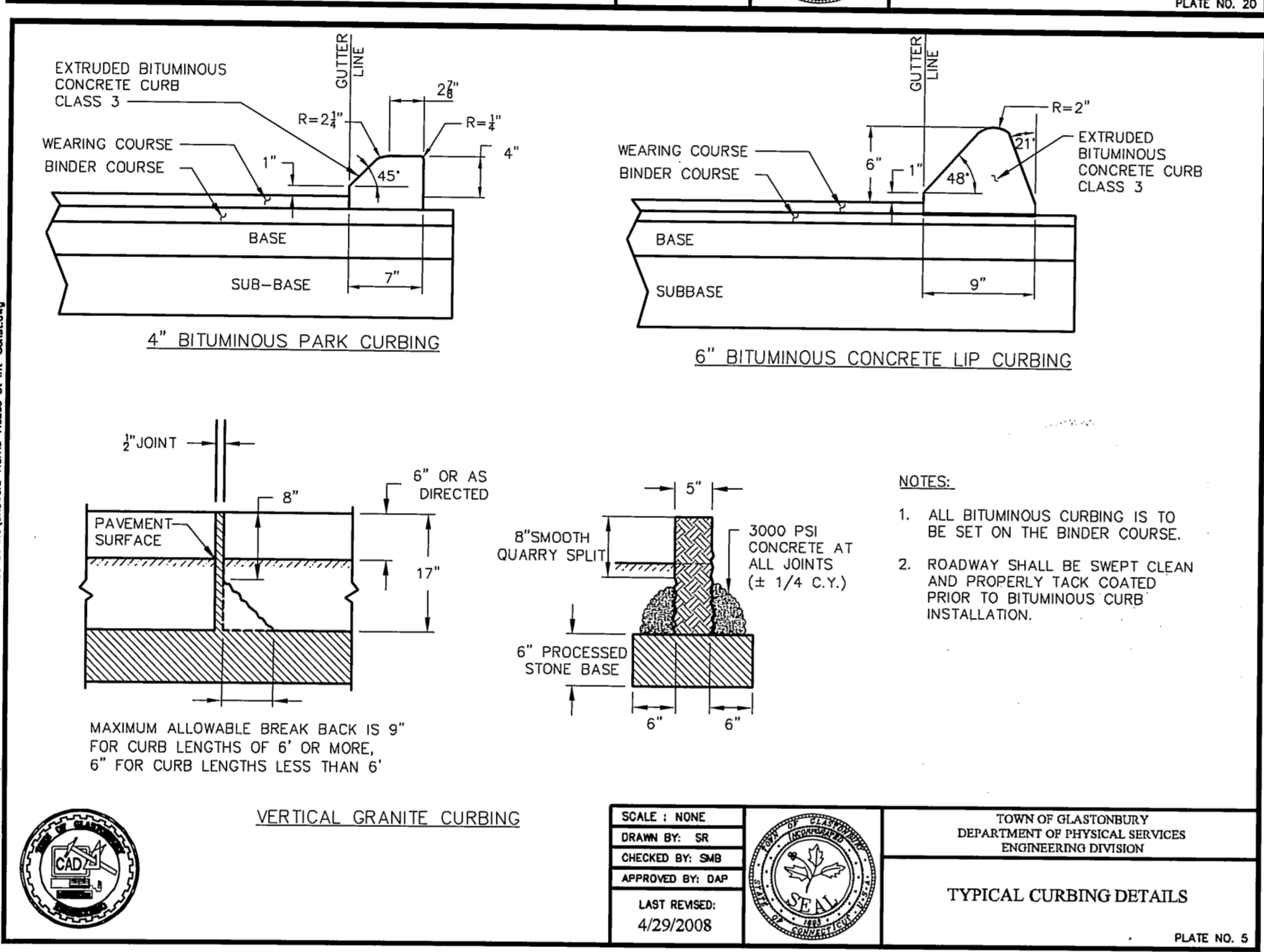
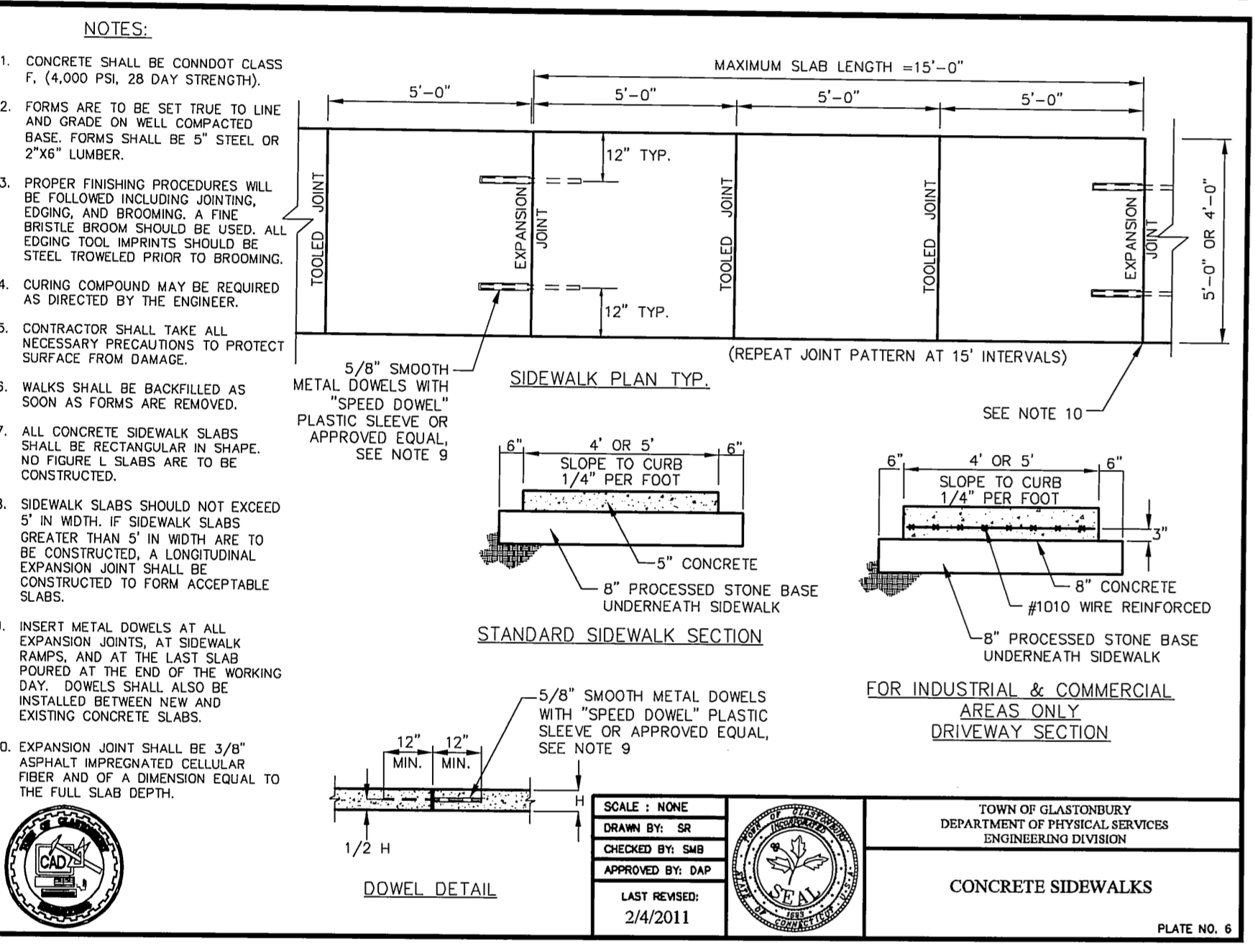
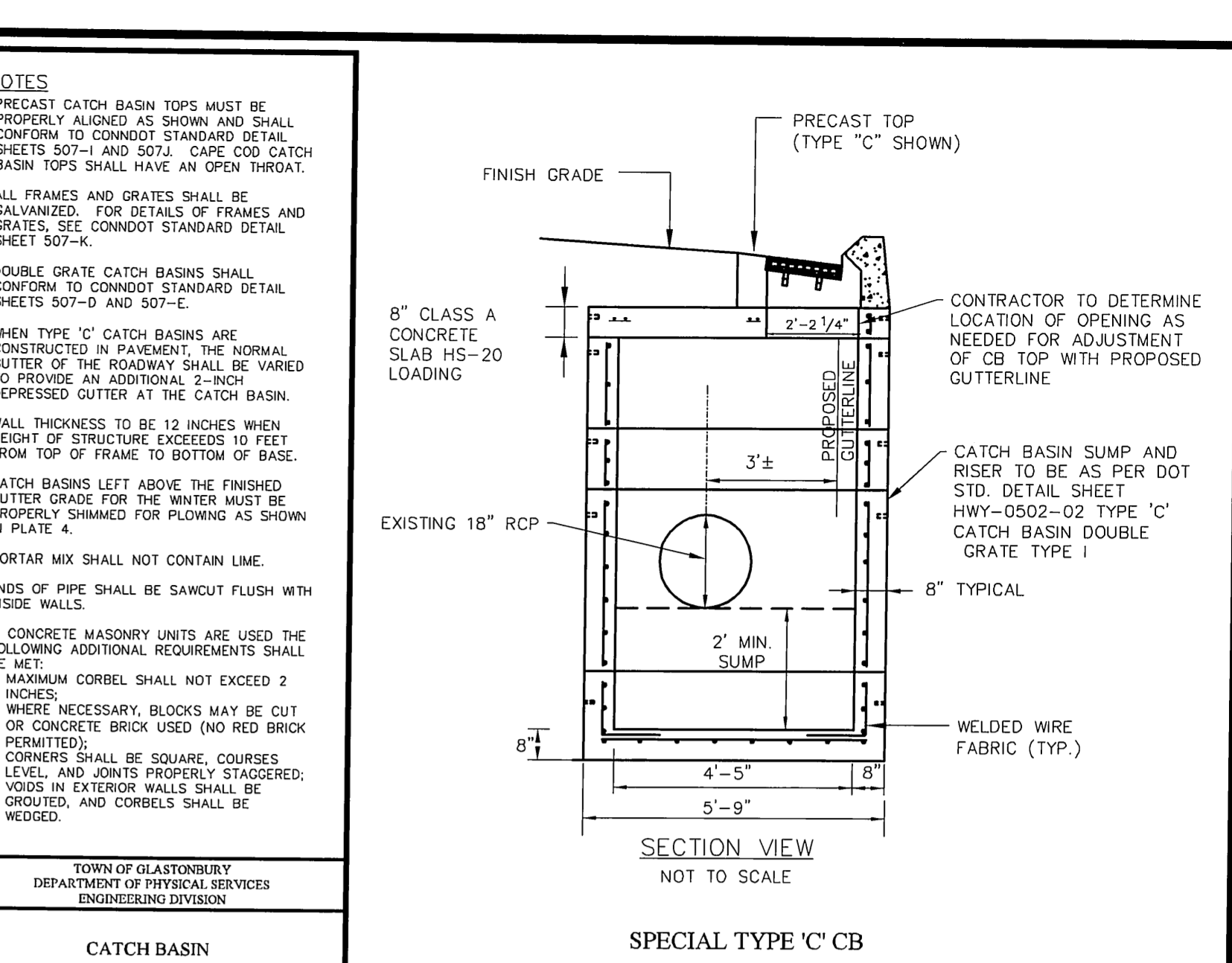
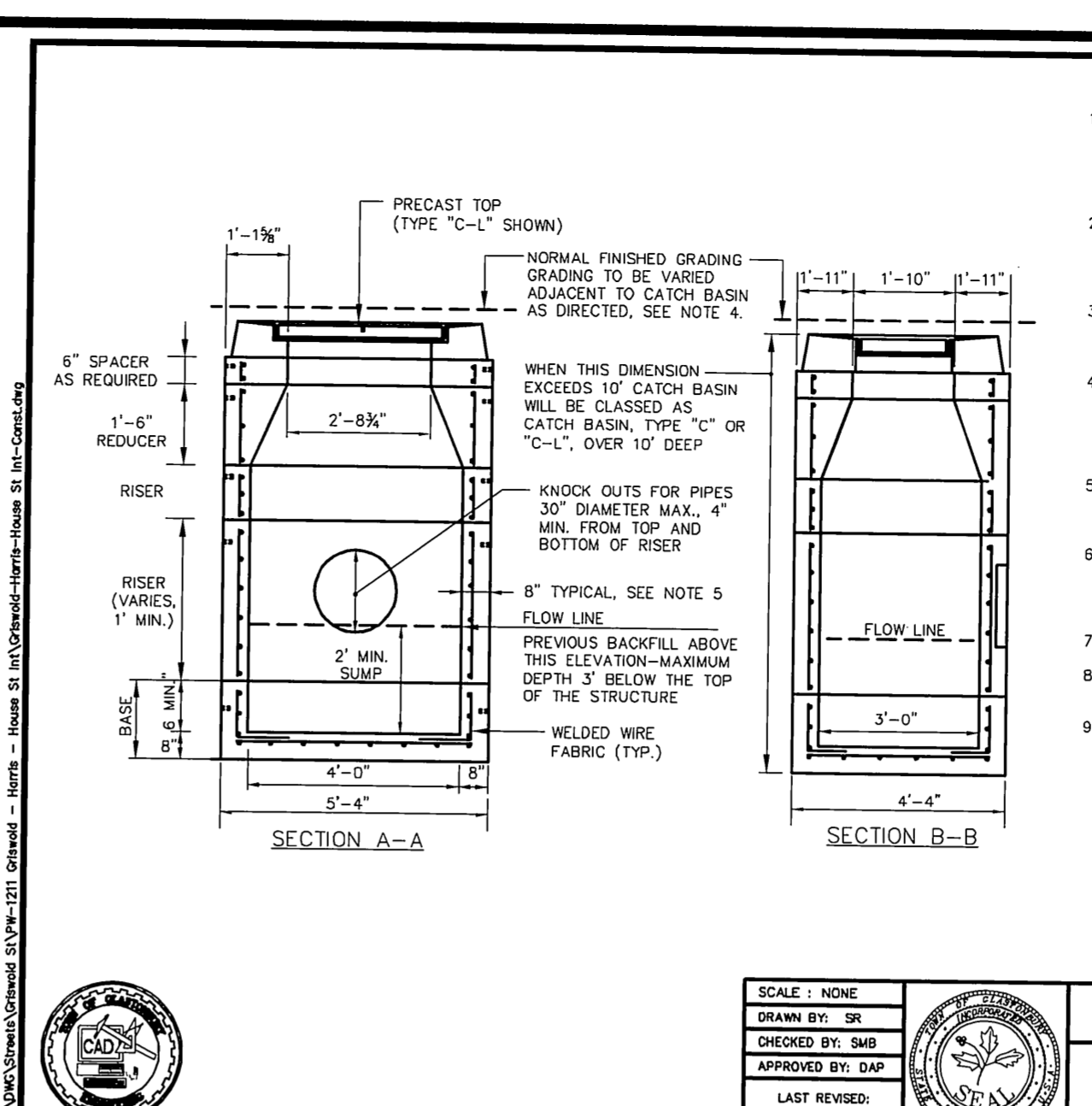
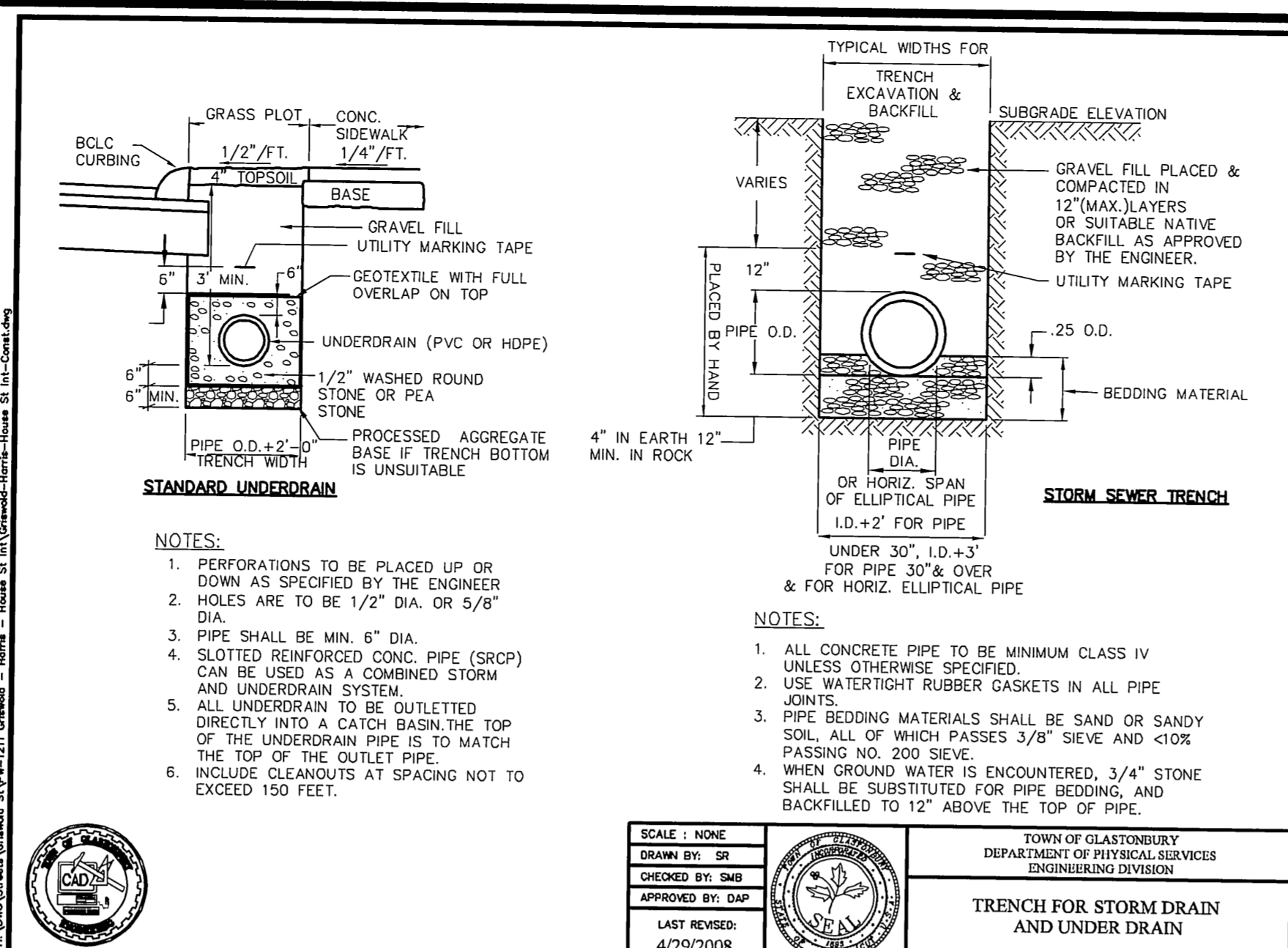
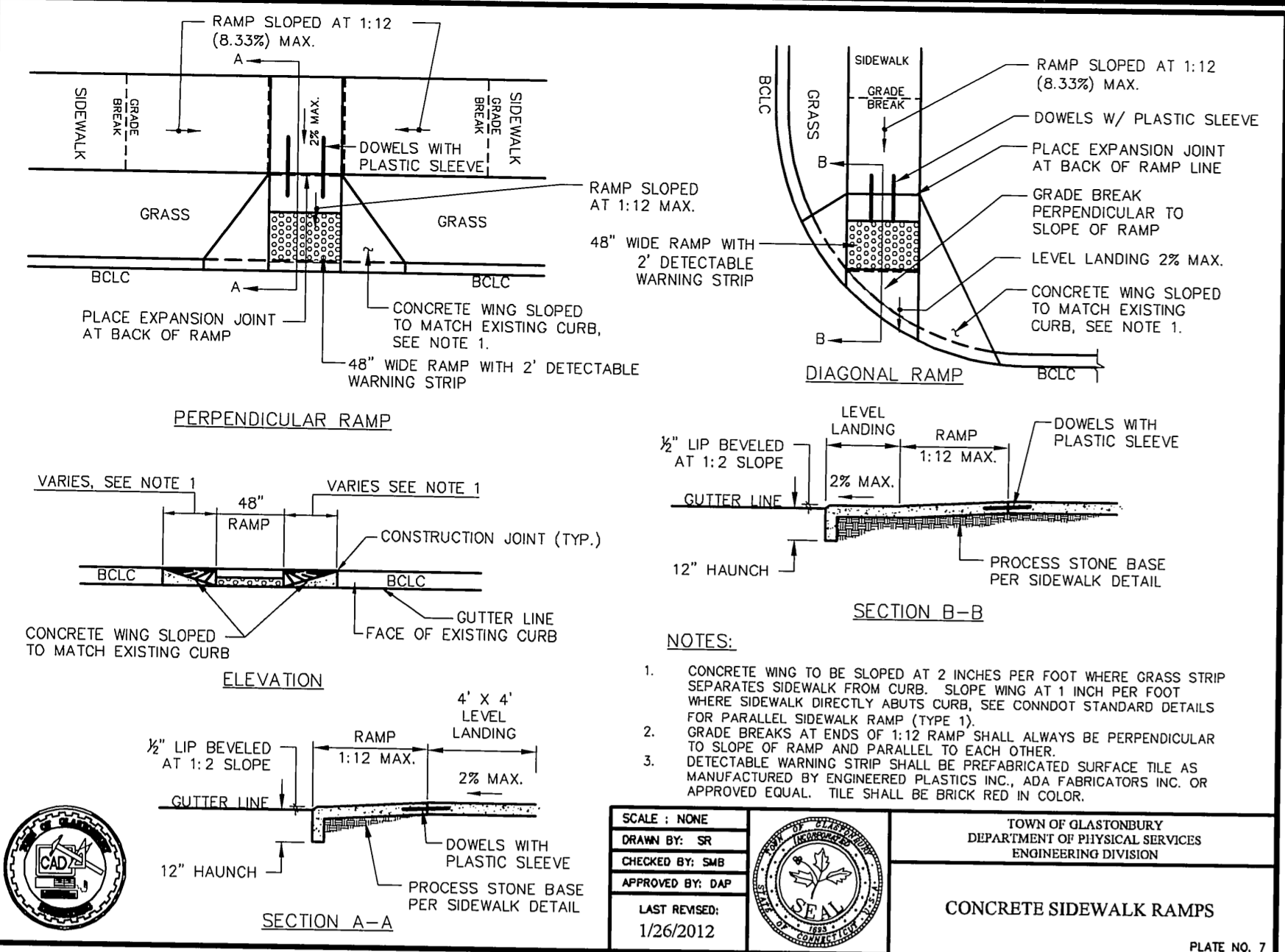


DETAILED - ESTIMATE SHEET
INTERSECTION IMPROVEMENTS
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

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H:\DWG\Streets\Griswold St\PW-1211 Griswold - Harris - House St Int\Griswold-Harris-House St Int-Const.dwg

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 19:05\Streets\Griswold St\1211 Griswold - Harris - House St Int\Griswold-Harris-House St Int-Const.dwg

STATE OF CONNECTICUT
 REGISTERED PROFESSIONAL ENGINEER
 No. 80181

DRAWING ISSUE STATUS

NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	4/2/2015

SCALE: AS SHOWN DATE: 12/20/2013
 DRAWN BY: C.F.S.
 CHECKED BY: S.M.B. 4/2/2015
 APPROVED BY: D.A.P. 4/2/2015

GRID NORTH

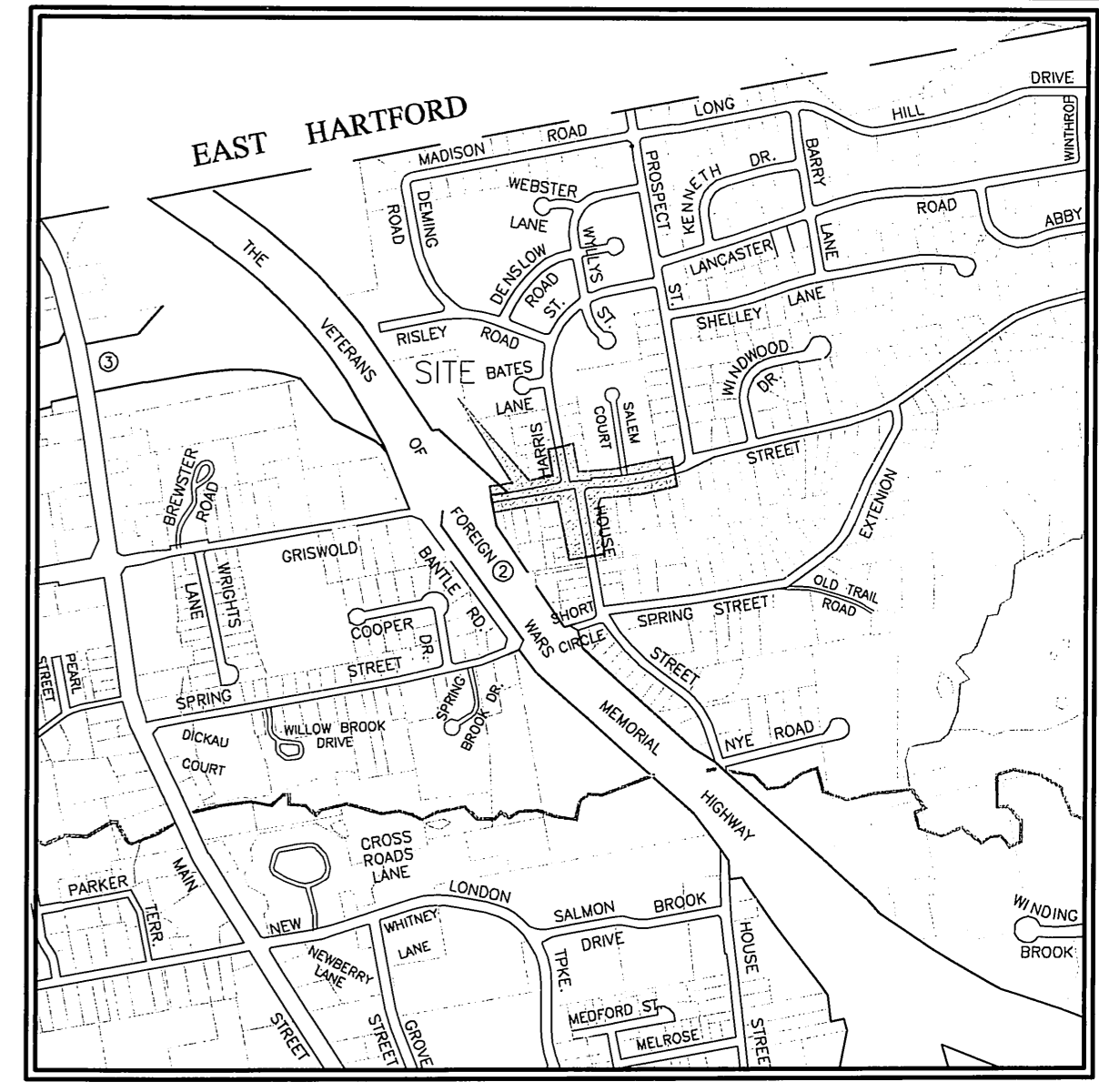
TOWN OF GLASTONBURY
 DEPARTMENT OF PHYSICAL SERVICES
 ENGINEERING DIVISION

PRECAST CONCRETE MANHOLE (STORM & SANITARY)
 SCALE: NONE
 DRAWN BY: SR
 CHECKED BY: S.M.B.
 APPROVED BY: D.A.P.
 LAST REVISED: 9/2/2008

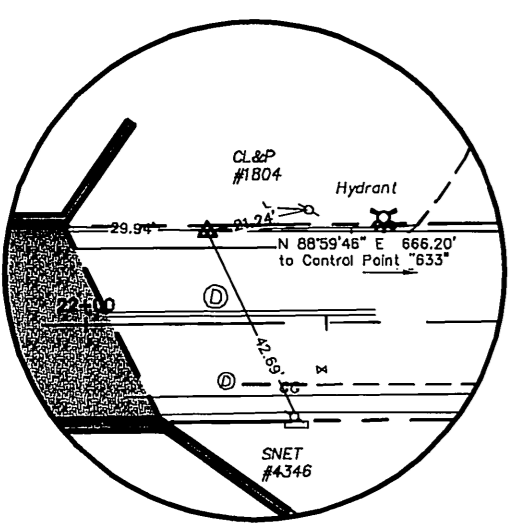
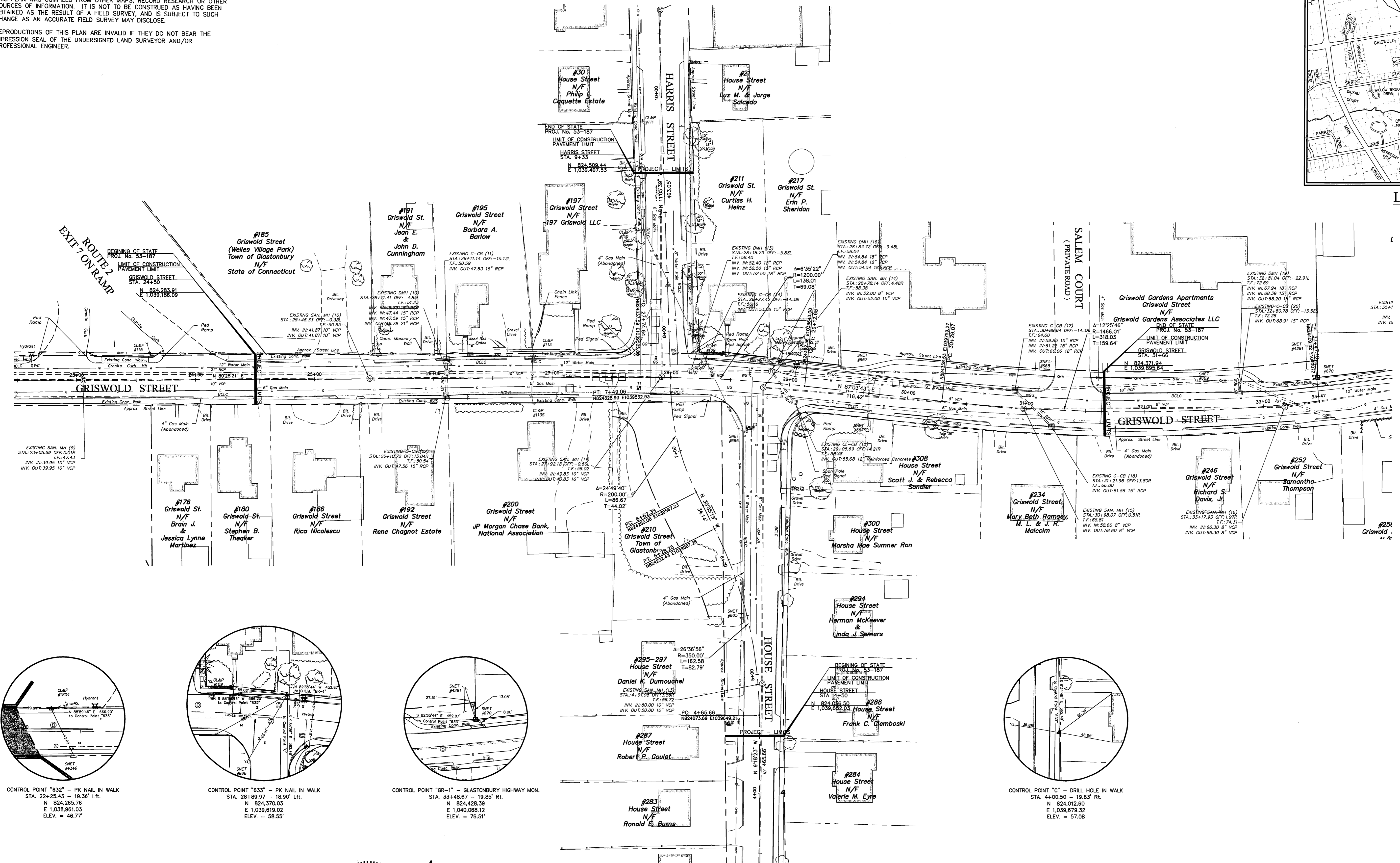
TYPICAL DETAILS & CROSS-SECTIONS INTERSECTION IMPROVEMENTS FOR GRISWOLD STREET LOCATED AT HARRIS & HOUSE STREETS GLASTONBURY, CONNECTICUT

SHEET NO. 3 OF 36

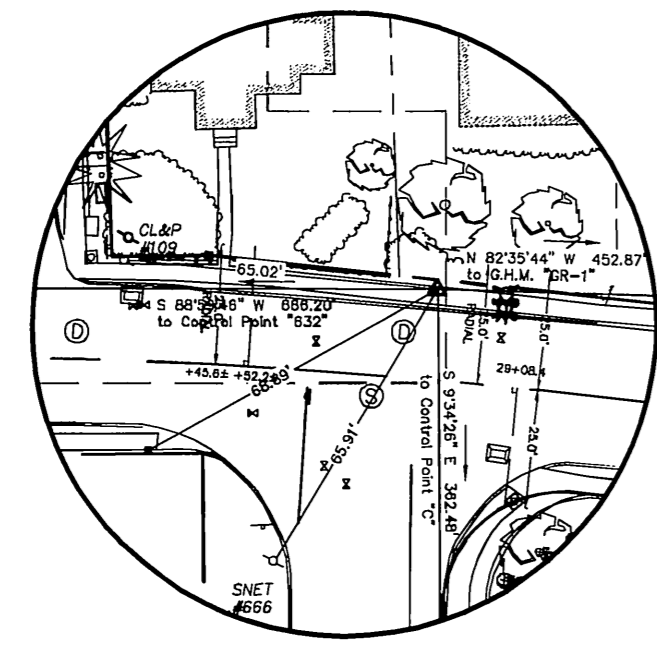
- SURVEY NOTES:
1. LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WITHIN THE RIGHT OF WAY WHERE ACQUIRED THROUGH FIELD SURVEY.
 2. THERE IS NO BOUNDARY/DETERMINATION OPINION.
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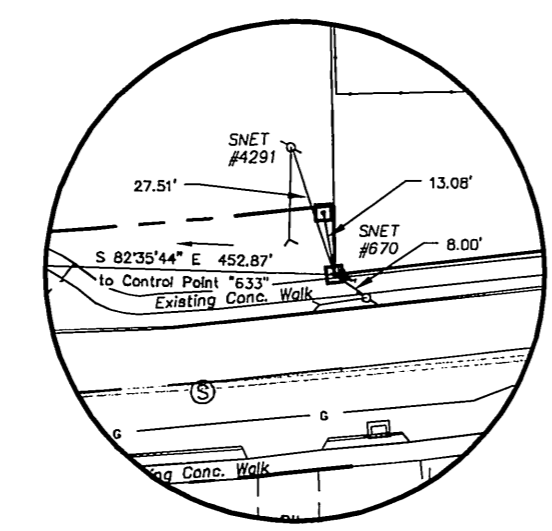
LOCATION MAP
SCALE: 1"=1000'



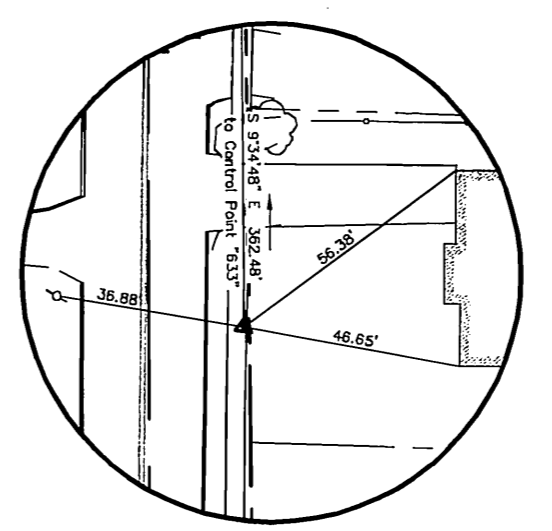
CONTROL POINT "632" - PK NAIL IN WALK
STA. 22+25.43 - 19.36' Lt.
N 824,265.76
E 1,038,991.03
ELEV. = 46.77'



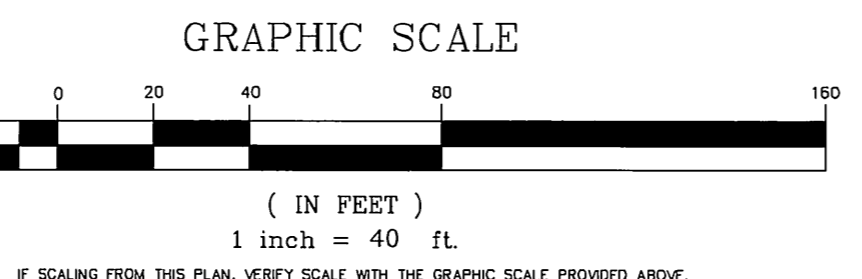
CONTROL POINT "633" - PK NAIL IN WALK
STA. 28+89.97 - 18.90' Lt.
N 824,370.03
E 1,039,619.02
ELEV. = 58.55'



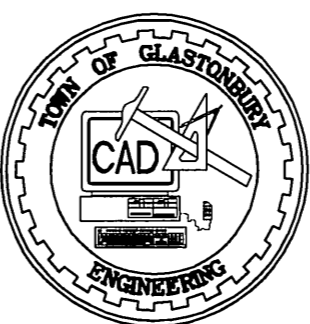
CONTROL POINT "GR-1" - GLASTONBURY HIGHWAY MON.
STA. 33+48.67 - 19.85' Rt.
N 824,428.39
E 1,040,068.12
ELEV. = 76.51'



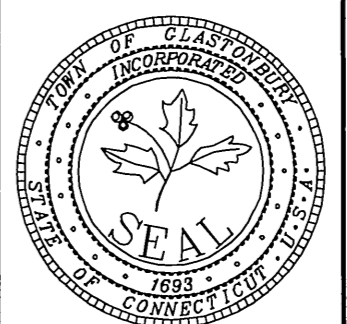
CONTROL POINT "C" - DRILL HOLE IN WALK
STA. 4+00.50 - 19.83' Rt.
N 824,012.60
E 1,039,879.32
ELEV. = 57.08'



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PLAN DEPICTING
EXISTING CONDITIONS, UTILITIES
AND ROADWAY GEOMETRY
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

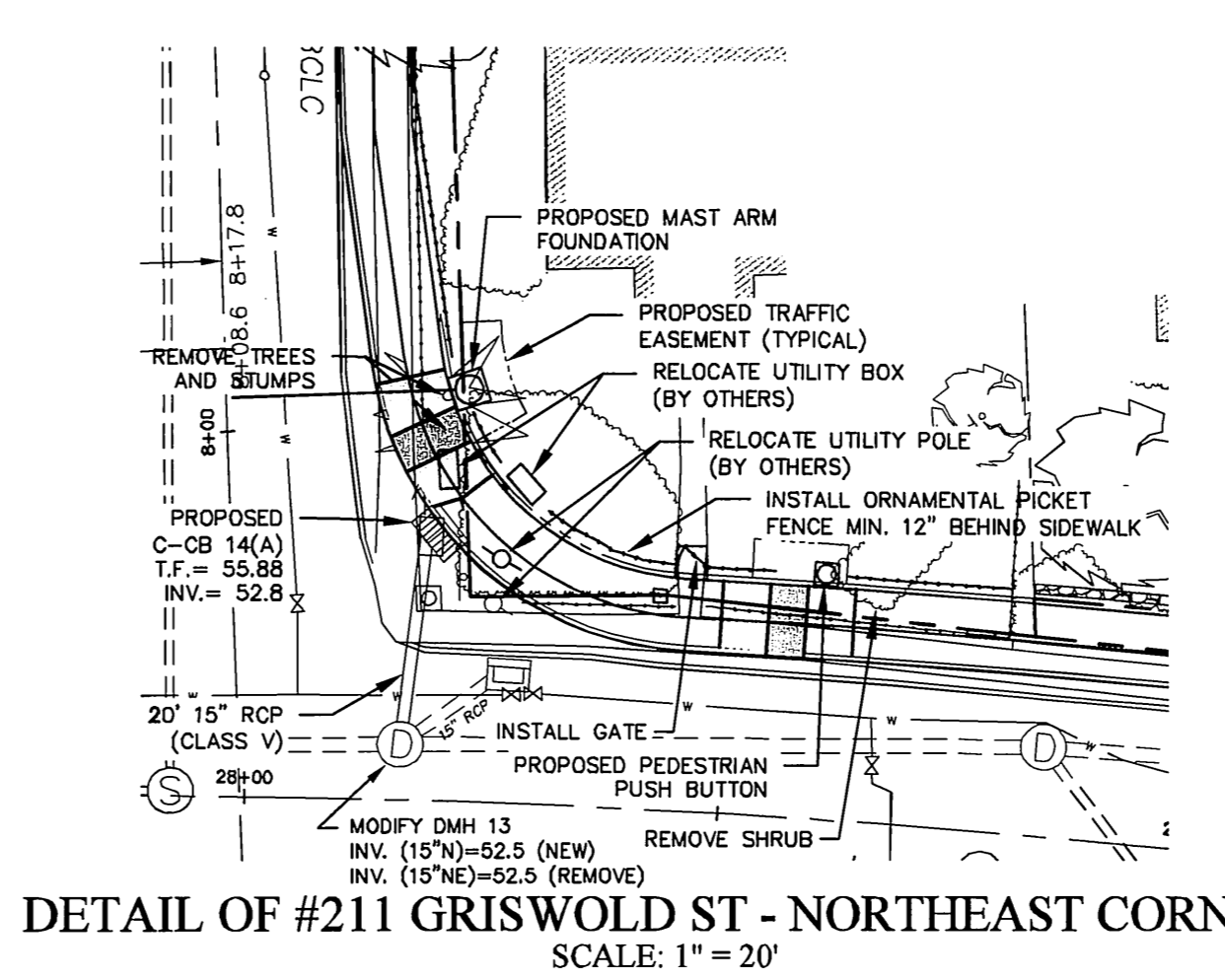
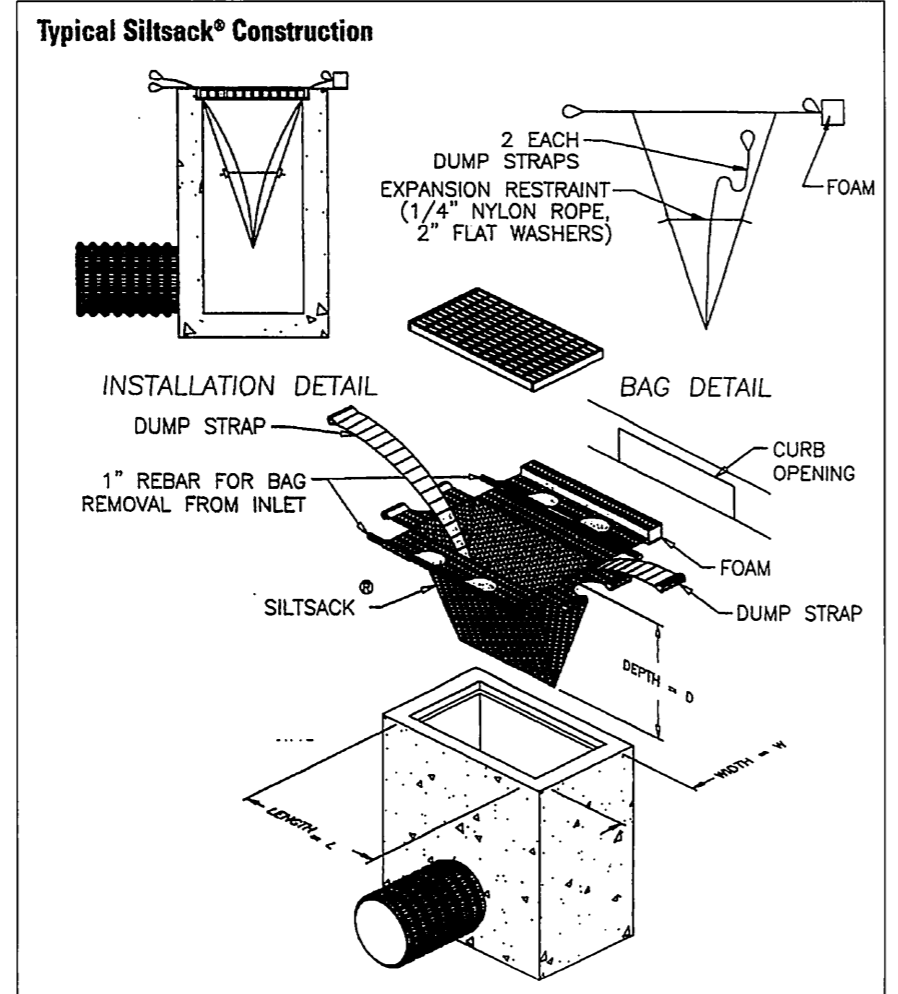
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STP 53-187
PW-1211

FILE:FDWG\Streets\Griswold\SP\1211 Griswold - Harris - House St Int\Griswold-Harris-House St Int-Const.dwg USER: Charles Sussalinger DATE: 4/2/2015

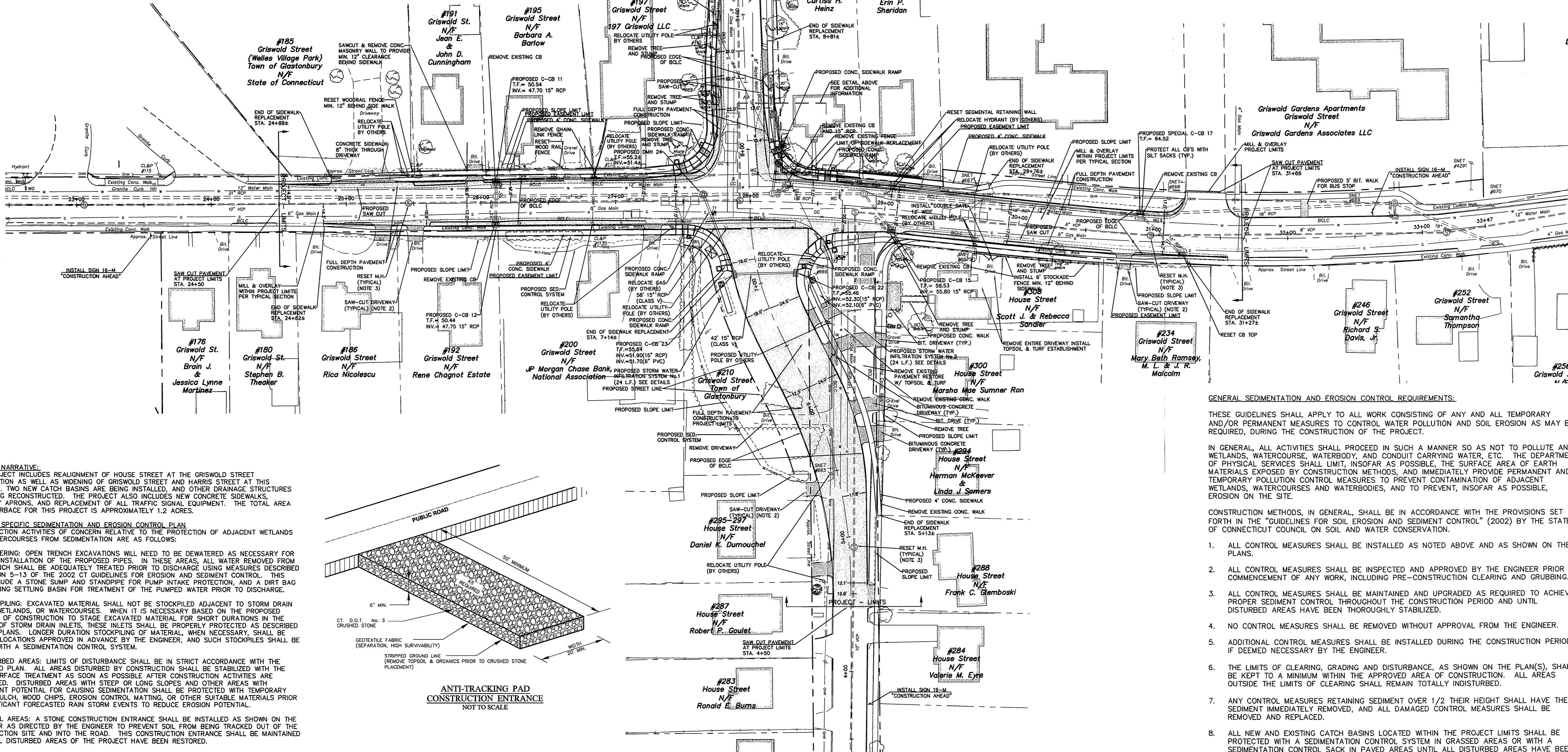
- SURVEY NOTES:**
1. LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WITHIN THE RIGHT OF WAY WHERE ACQUIRED THROUGH FIELD SURVEY.
 2. THERE IS NO BOUNDARY/DETERMINATION OPINION.
 3. NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.
 4. HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 - (NAD83).
 5. ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 - (NAVDB8).
 6. THIS PLAN WAS COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSIDERED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
 7. REPRODUCTIONS OF THIS PLAN ARE INVALID IF THEY DO NOT BEAR THE IMPRESSION SEAL OF THE UNDERSIGNED LAND SURVEYOR AND/OR PROFESSIONAL ENGINEER.



- CONSTRUCTION NOTES:**
1. REMOVING AND SETTING OF EXISTING MAILBOXES, IS INCLUDED WITH THE CLEARING AND GRUBBING PAY ITEM. MAILBOXES SHALL BE RESET AT A LOCATION AS CLOSE AS POSSIBLE TO THE EXISTING LOCATION, AND SHALL BE ACCORDING TO THE U.S.P.S. REQUIREMENTS.
 2. SAWCUT BITUMINOUS PAVEMENT AT ALL DRIVEWAY CONSTRUCTION LIMITS. THIS WORK IS INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 0122501A BITUMINOUS CONCRETE DRIVEWAY.
 3. MANHOLE TOPS AND GATE BOXES WITHIN PROJECT LIMITS TO BE RESET / ADJUSTED AS DIRECTED BY THE ENGINEER TO MATCH FINAL PROPOSED PAVEMENT ELEVATION.
 4. REMOVAL OF CONCRETE MASONRY WALL AT #191 GRISWOLD WILL NOT BE MEASURED FOR PAYMENT, BUT RATHER INCLUDED UNDER THE CLEARING AND GRUBBING PAY ITEM.
 5. BITUMINOUS CONCRETE PATCHING-PARTIAL DEPTH SHALL BE USED IN AREAS WHERE MILLING REVEALS GRAVEL BASE COURSE, AND AS DIRECTED BY THE ENGINEER. AFTER MILLING IS COMPLETED, THE ENGINEER WILL INSPECT THE MILLED SURFACE AND MARK AREAS FOR PARTIAL DEPTH PAVEMENT PATCH.
 6. WHERE EXCAVATION IS TO OCCUR WITHIN THE DRIP LINE OR UNDER THE CANOPY OF EXISTING TREES, TREE ROOTS SHALL BE CLEANLY CUT USING A CHAIN DRIVEN TRENCING APPARATUS PRIOR TO EXCAVATION. THIS WORK SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "SELECTIVE CLEARING AND THINNING".
 7. MODIFICATION OF DMH 13 WILL NOT BE MEASURED FOR PAYMENT. RATHER, THIS WORK SHALL BE INCLUDED IN THE COST OF ITEM 651251 15" RCP (CLASS V), AS DESCRIBED IN THE SPECIAL PROVISIONS.
 8. REMOVAL OF EXISTING DRAINAGE PIPES WILL NOT BE MEASURED FOR PAYMENT. RATHER, THIS WORK IS INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 0507003A "REMOVE EXISTING CATCH BASIN" AS DESCRIBED IN THE SPECIAL PROVISIONS.
 9. ALL NEW CATCH BASINS SHALL HAVE A MINIMUM 3' SUMP DEPTH.

Utility Test Pits Logs
Investigated on May 6, 2014 as shown on plans.

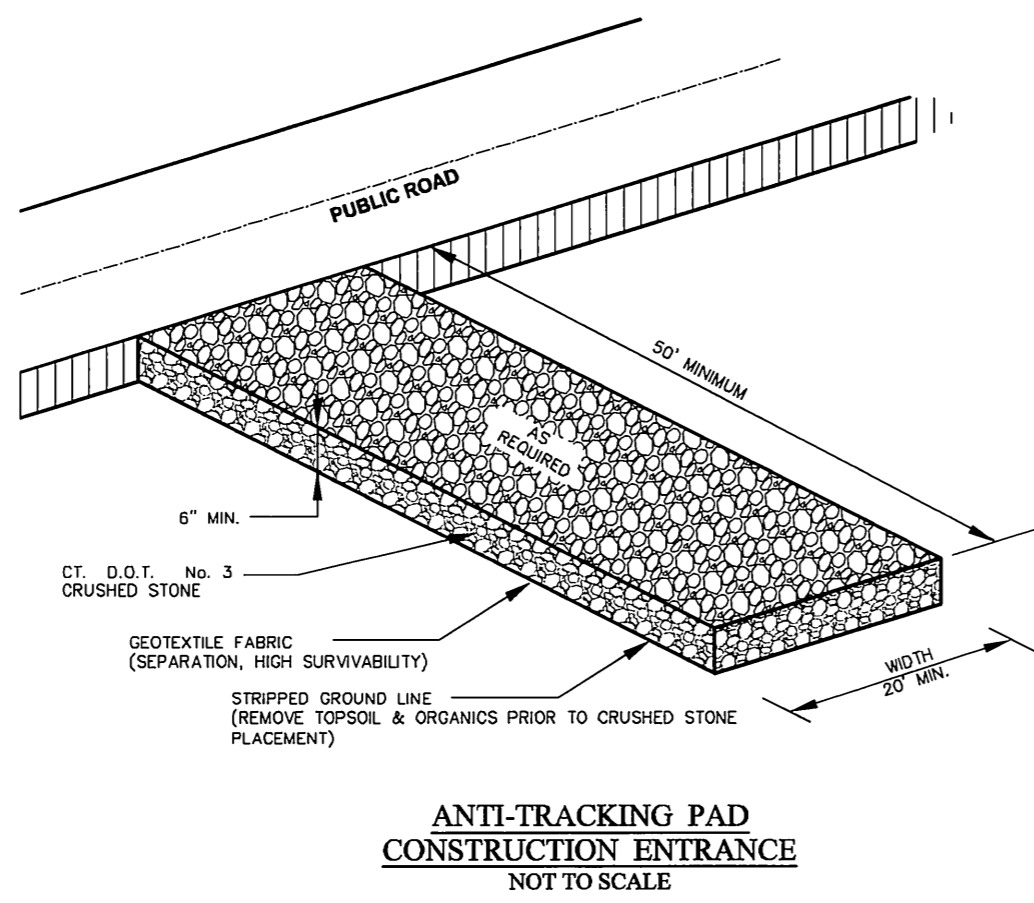
T-1	Top 6" Gas	51.95
T-2	Top Abandoned Gas	54.18
T-3	Top 8" Water	53.86



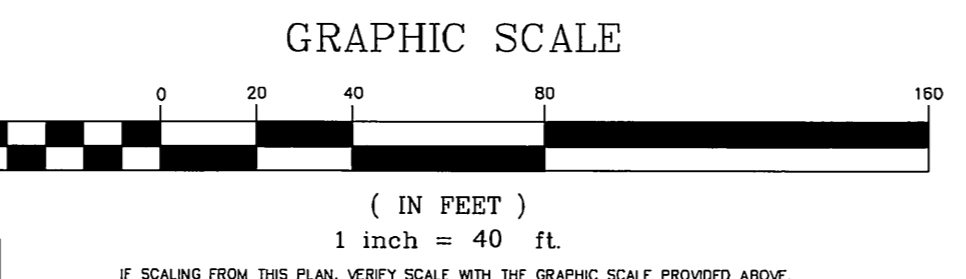
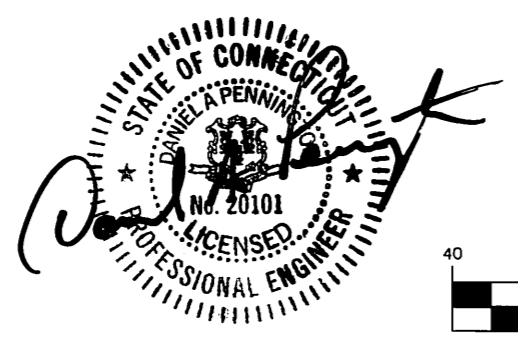
PROJECT NARRATIVE:
THIS PROJECT INCLUDES REALIGNMENT OF HOUSE STREET AT THE GRISWOLD STREET INTERSECTION AS WELL AS WIDENING OF GRISWOLD STREET AND HARRIS STREET AT THIS LOCATION. TWO NEW CATCH BASINS ARE BEING INSTALLED, AND OTHER DRAINAGE STRUCTURES ARE BEING RECONSTRUCTED. THE PROJECT ALSO INCLUDES NEW CONCRETE SIDEWALKS, DRIVEWAY APRONS, AND REPLACEMENT OF ALL TRAFFIC SIGNAL EQUIPMENT. THE TOTAL AREA OF DISTURBANCE FOR THIS PROJECT IS APPROXIMATELY 1.2 ACRES.

PROJECT SPECIFIC SEDIMENTATION AND EROSION CONTROL PLAN
CONSTRUCTION ACTIVITIES OF CONCERN RELATIVE TO THE PROTECTION OF ADJACENT WETLANDS AND WATERCOURSES FROM SEDIMENTATION ARE AS FOLLOWS:

1. DEWATERING: OPEN TRENCH EXCAVATIONS WILL NEED TO BE DEWATERED AS NECESSARY FOR PROPER INSTALLATION OF THE PROPOSED PIPES. IN THESE AREAS, ALL WATER REMOVED FROM THE TRENCH SHALL BE ADEQUATELY TREATED PRIOR TO DISCHARGE USING MEASURES DESCRIBED IN SECTION 5-13 OF THE 2002 CT GUIDELINES FOR EROSION AND SEDIMENT CONTROL. THIS MAY INCLUDE A STONE SUMP AND STANDPIPE FOR PUMP INTAKE PROTECTION, AND A DIRT BAG OR PUMPING SETTLING BASIN FOR TREATMENT OF THE PUMPED WATER PRIOR TO DISCHARGE.
2. STOCKPILING: EXCAVATED MATERIAL SHALL NOT BE STOCKPILED ADJACENT TO STORM DRAIN INLETS, WETLANDS, OR WATERCOURSES. WHEN IT IS NECESSARY BASED ON THE PROPOSED METHODS OF CONSTRUCTION TO STOCKPILE MATERIAL FOR SHORT DURATIONS IN THE VICINITY OF STORM DRAIN INLETS, THESE INLETS SHALL BE PROPERLY PROTECTED AS DESCRIBED ON THE PLANS. LONGER DURATION STOCKPILING OF MATERIAL, WHEN NECESSARY, SHALL BE ONLY IN LOCATIONS APPROVED IN ADVANCE BY THE ENGINEER, AND SUCH STOCKPILES SHALL BE RINGED WITH A SEDIMENTATION CONTROL SYSTEM.
3. DISTURBED AREAS: LIMITS OF DISTURBANCE SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLAN. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH THE FINAL SURFACE TREATMENT AS SOON AS POSSIBLE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. DISTURBED AREAS WITH STEEP OR LONG SLOPES AND OTHER AREAS WITH SIGNIFICANT POTENTIAL FOR CAUSING SEDIMENTATION SHALL BE PROTECTED WITH TEMPORARY STRAW MULCH, WOOD CHIPS, EROSION CONTROL MATTING, OR OTHER SUITABLE MATERIALS PRIOR TO SIGNIFICANT FORECASTED RAIN STORM EVENTS TO REDUCE EROSION POTENTIAL.
4. TRAVEL AREAS: A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER TO PREVENT SOIL FROM BEING TRACKED OUT OF THE CONSTRUCTION SITE AND INTO THE ROAD. THIS CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS OF THE PROJECT HAVE BEEN RESTORED.
5. SEVERE WEATHER CONTINGENCY PLAN: IN ADVANCE OF A SEVERE WEATHER EVENT, ALL EROSION CONTROLS DESCRIBED ABOVE AND ELSEWHERE ON THE PLANS SHALL BE INSPECTED AND ADJUSTED AS NECESSARY.

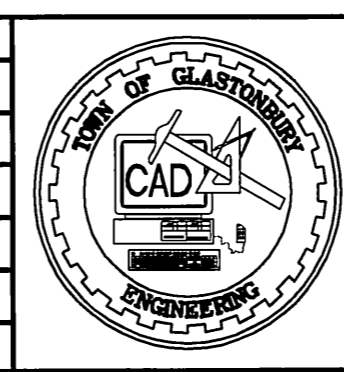


RESPONSIBLE PARTIES:
THE CONTRACTOR SHALL PROVIDE A REPRESENTATIVE WHO IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.

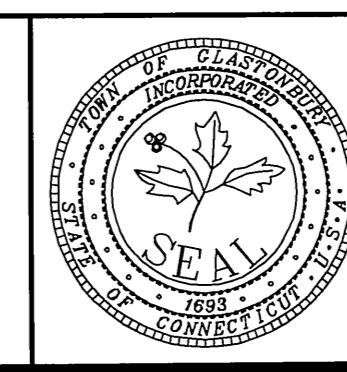
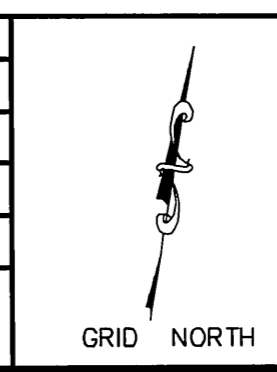


STP 53-187
PW-1211

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	4/2/2015

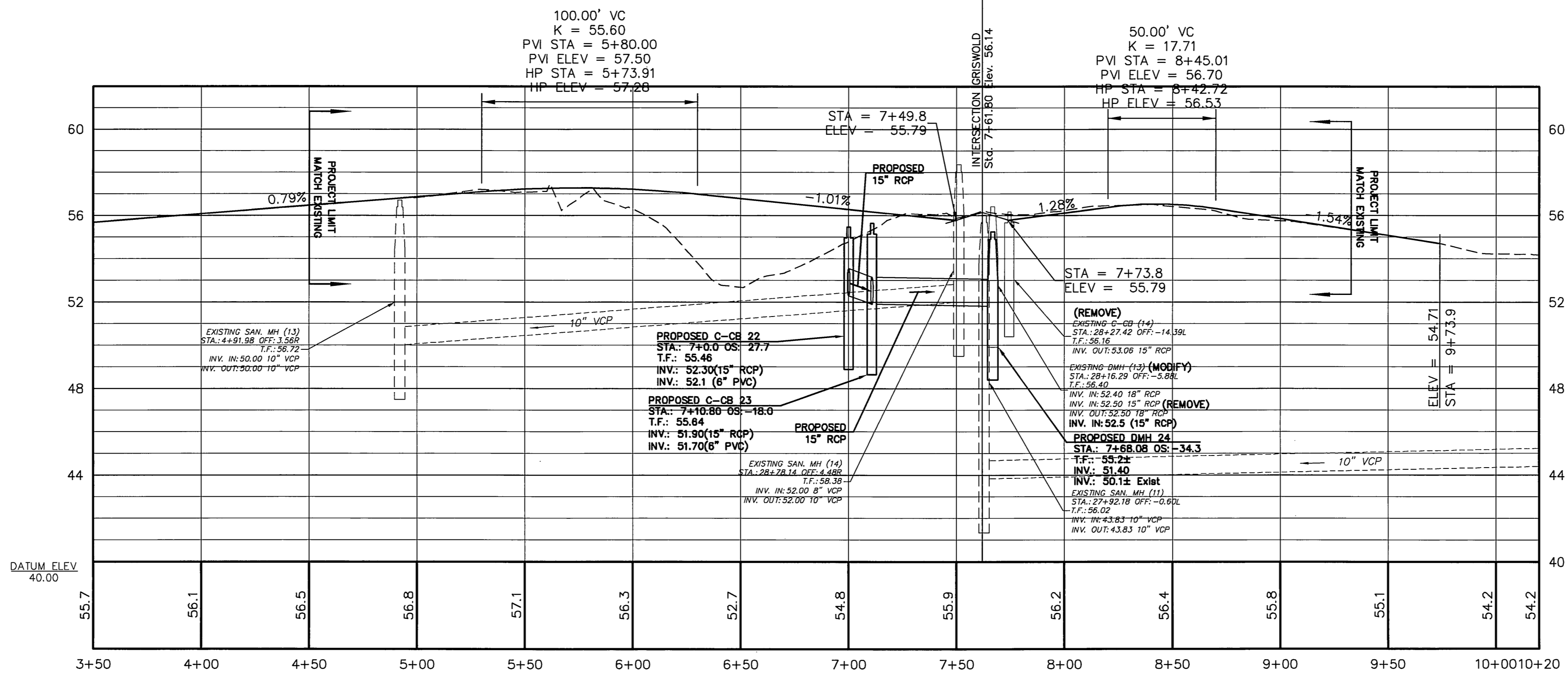
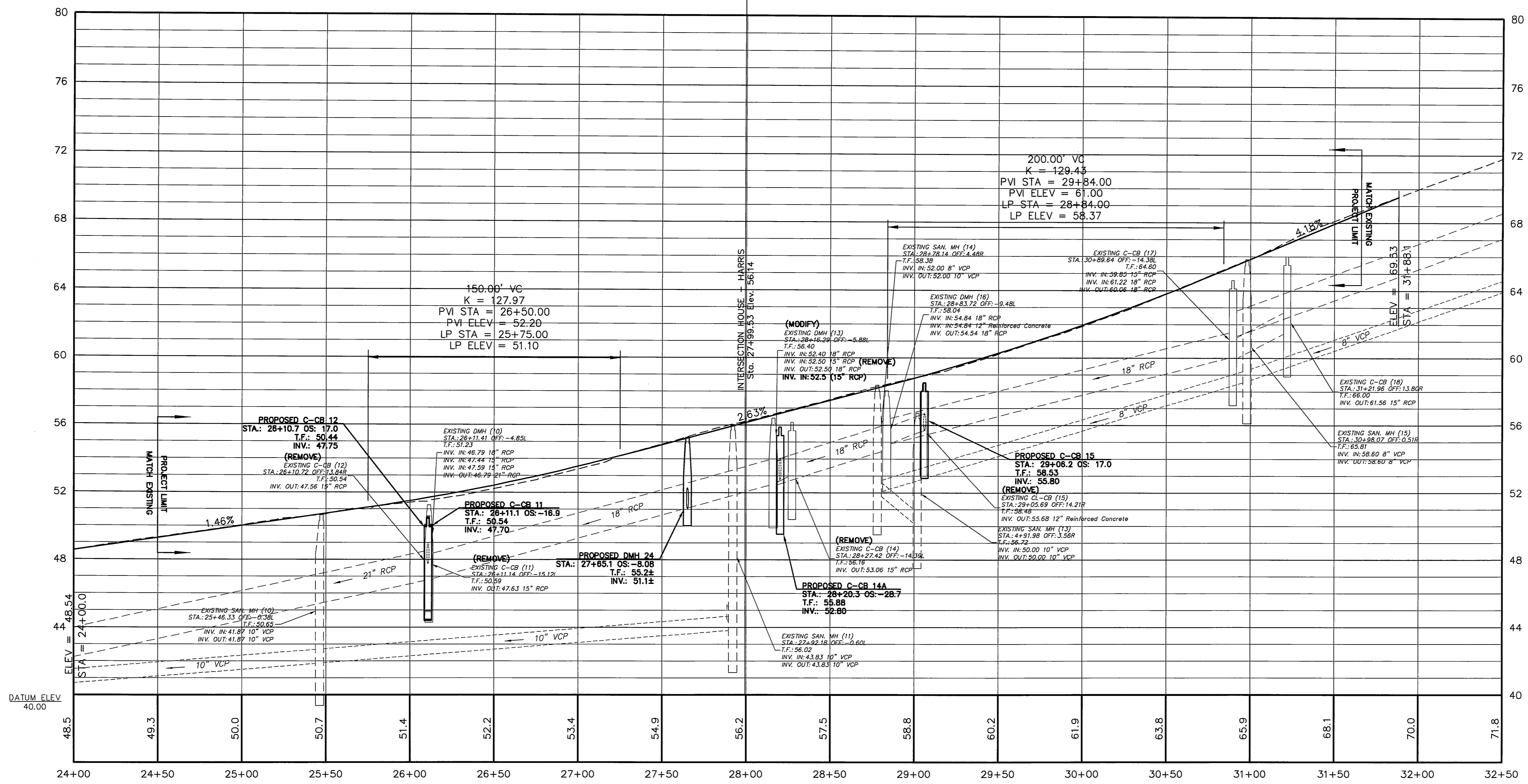


SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	7/11/2013
CHECKED BY: S.M.B.	4/2/2015
APPROVED BY: D.A.P.	4/2/2015
ST. FILE:	
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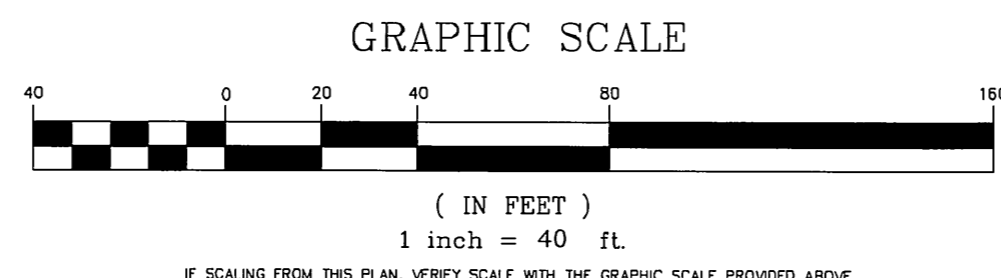


SITE PLAN DEPICTING
INTERSECTION IMPROVEMENTS
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

SHEET NO.
5
OF 36

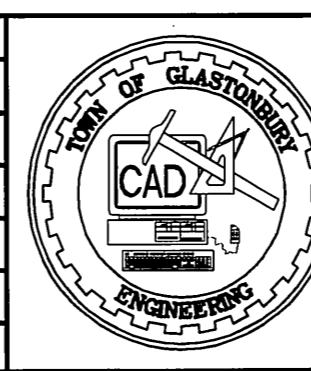


PROFILE
SCALE: 1" = 40' HORZ.
SCALE: 1" = 4' VERT.

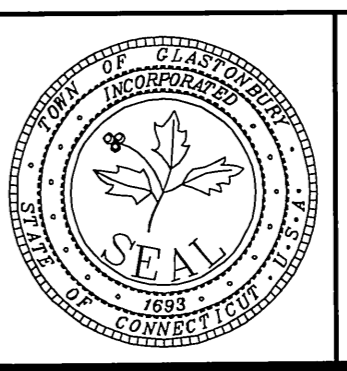
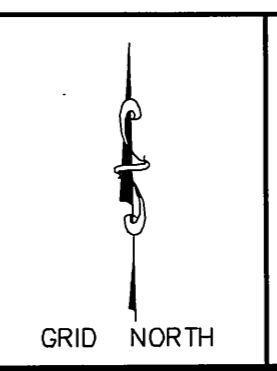


HOUSE STREET / HARRIS STREET PROFILE
1" = 40' HORZ., 1" = 4' VERT.

DRAWING ISSUE STATUS		
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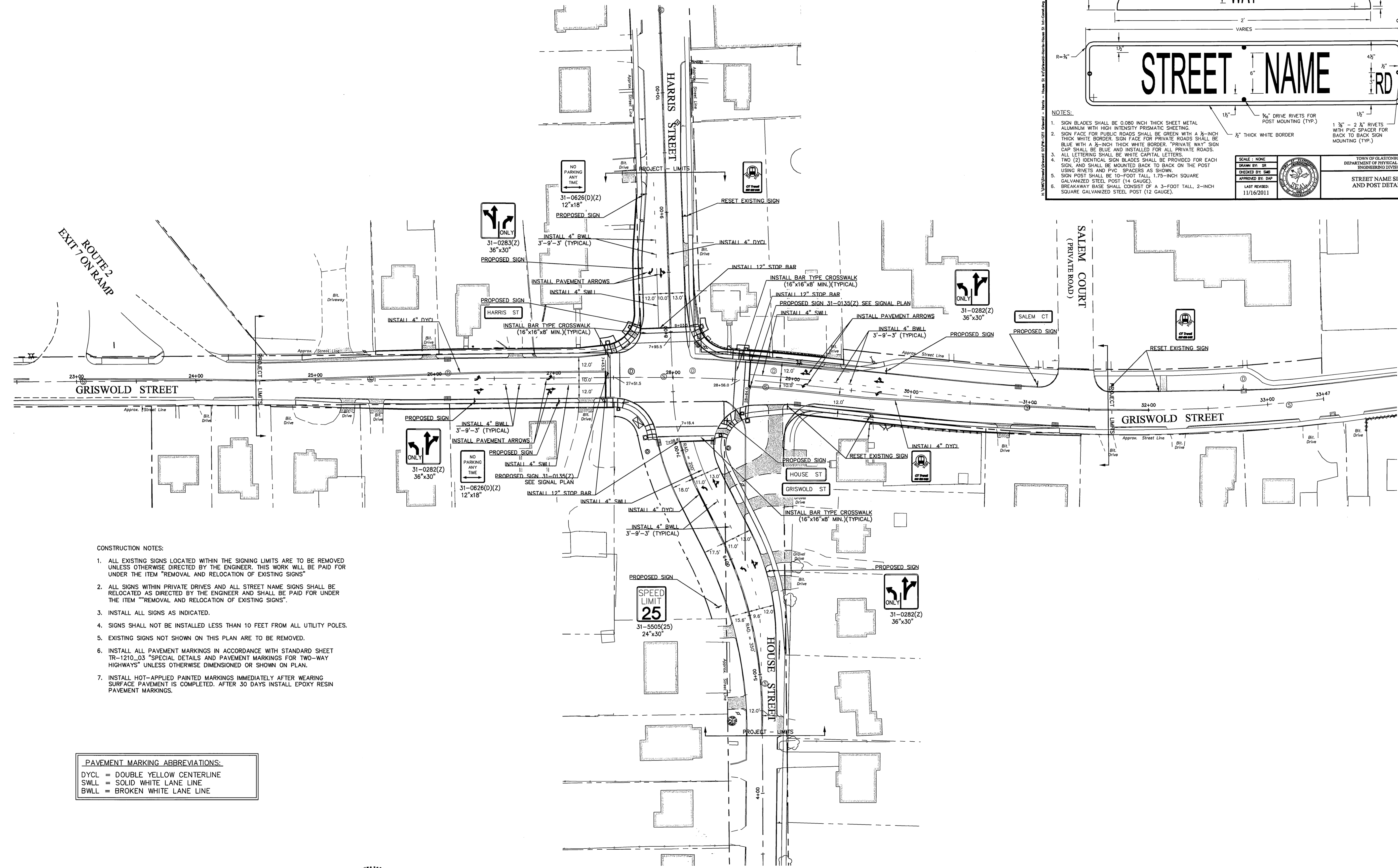


SCALE: AS SHOWN	DATE: 7/11/2013
DRAWN BY: C.F.S.	CHECKED BY: S.M.B. 4/2/2015
APPROVED BY: D.A.P.	4/2/2015



EXISTING & PROPOSED PROFILE FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

FILE: H:\DWG\Streets\Griswold ST\PW-1211 Griswold - Harris - House St Int\Griswold-Harris-House St Int-Const.dwg USER: Charles Stambler DATE: 4/2/2015



NOTES:

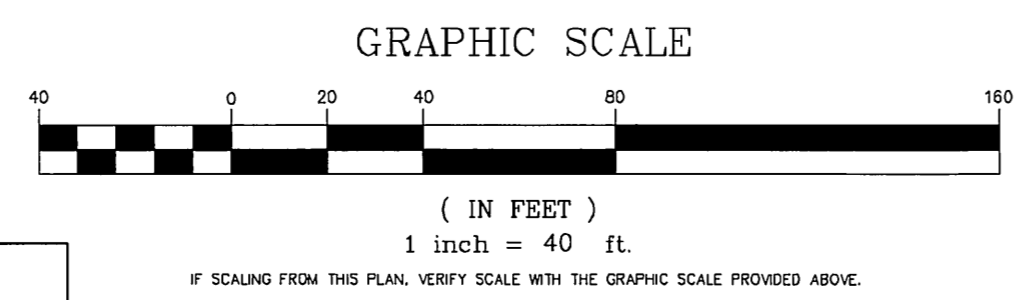
- SIGN BLADES SHALL BE 0.080 INCH THICK SHEET METAL ALUMINUM WITH HIGH INTENSITY PRISMATIC SHEETING.
- SIGN FACE FOR PUBLIC ROADS SHALL BE GREEN WITH A 1/2-INCH THICK WHITE BORDER. SIGN FACE FOR PRIVATE ROADS SHALL BE BLUE WITH A 1/2-INCH THICK WHITE BORDER. "PRIVATE WAY" SIGN CAP SHALL BE BLUE AND INSTALLED FOR ALL PRIVATE ROADS. ALL LETTERING SHALL BE WHITE CAPITAL LETTERS.
- TWO (2) IDENTICAL SIGN BLADES SHALL BE PROVIDED FOR EACH SIGN AND SHALL BE MOUNTED BACK TO BACK ON THE POST USING RIVETS AND PVC SPACERS AS SHOWN.
- SIGN POST SHALL BE 10-FOOT TALL, 1.75-INCH SQUARE GALVANIZED STEEL POST (14 GAUGE).
- BREAKAWAY BASE SHALL CONSIST OF A 3-FOOT TALL, 2-INCH SQUARE GALVANIZED STEEL POST (12 GAUGE).

SCALE: NONE
DESIGNED BY: SE
CHECKED BY: S.M.B.
APPROVED BY: D.A.P.
LAST REVISION: 11/16/2011

TOWN OF GLASTONBURY
 DEPARTMENT OF PHYSICAL SERVICES
 ENGINEERING DIVISION
**STREET NAME SIGN
 AND POST DETAILS**
 PLATE NO. 8

- CONSTRUCTION NOTES:**
- ALL EXISTING SIGNS LOCATED WITHIN THE SIGNING LIMITS ARE TO BE REMOVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR UNDER THE ITEM "REMOVAL AND RELOCATION OF EXISTING SIGNS".
 - ALL SIGNS WITHIN PRIVATE DRIVES AND ALL STREET NAME SIGNS SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER THE ITEM "REMOVAL AND RELOCATION OF EXISTING SIGNS".
 - INSTALL ALL SIGNS AS INDICATED.
 - SIGNS SHALL NOT BE INSTALLED LESS THAN 10 FEET FROM ALL UTILITY POLES.
 - EXISTING SIGNS NOT SHOWN ON THIS PLAN ARE TO BE REMOVED.
 - INSTALL ALL PAVEMENT MARKINGS IN ACCORDANCE WITH STANDARD SHEET TR-1210_03 "SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS" UNLESS OTHERWISE DIMENSIONED OR SHOWN ON PLAN.
 - INSTALL HOT-APPLIED PAINTED MARKINGS IMMEDIATELY AFTER WEARING SURFACE PAVEMENT IS COMPLETED. AFTER 30 DAYS INSTALL EPOXY RESIN PAVEMENT MARKINGS.

PAVEMENT MARKING ABBREVIATIONS:
 DYCL = DOUBLE YELLOW CENTERLINE
 SWLL = SOLID WHITE LANE LINE
 BWLL = BROKEN WHITE LANE LINE

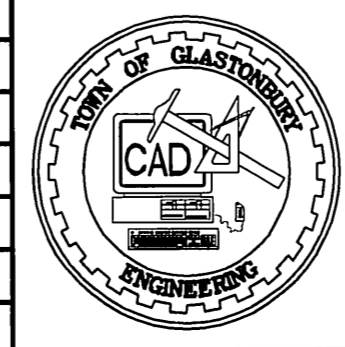


THE LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATIONS AND BY INFORMATION PROVIDED BY OTHERS. THEIR TRUE LOCATIONS MAY VARY FROM THOSE INDICATED, AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. IF APPLICABLE UTILIZE THE "CALL BEFORE YOU DIG" NUMBER (1-800-922-4455), TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES, AND RESOLVE CONFLICTS PRIOR TO STARTING CONSTRUCTION, REPAIR OR DESIGN.

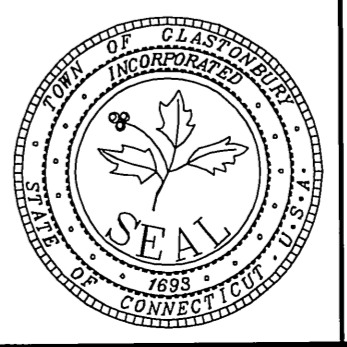
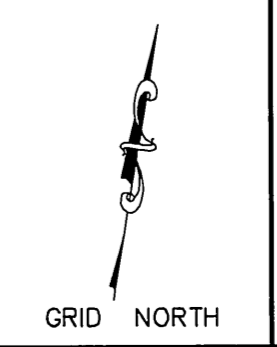
MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED.
 ALL REVISIONS MUST BE PERFORMED ON CADD FILE.
 H:\DWG\Streets\Griswold ST\PW-1211 Griswold - Harris - House St Int\Griswold-Harris-House St Int-Const.dwg

STP 53-187
 PW-1211

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	4/2/2015



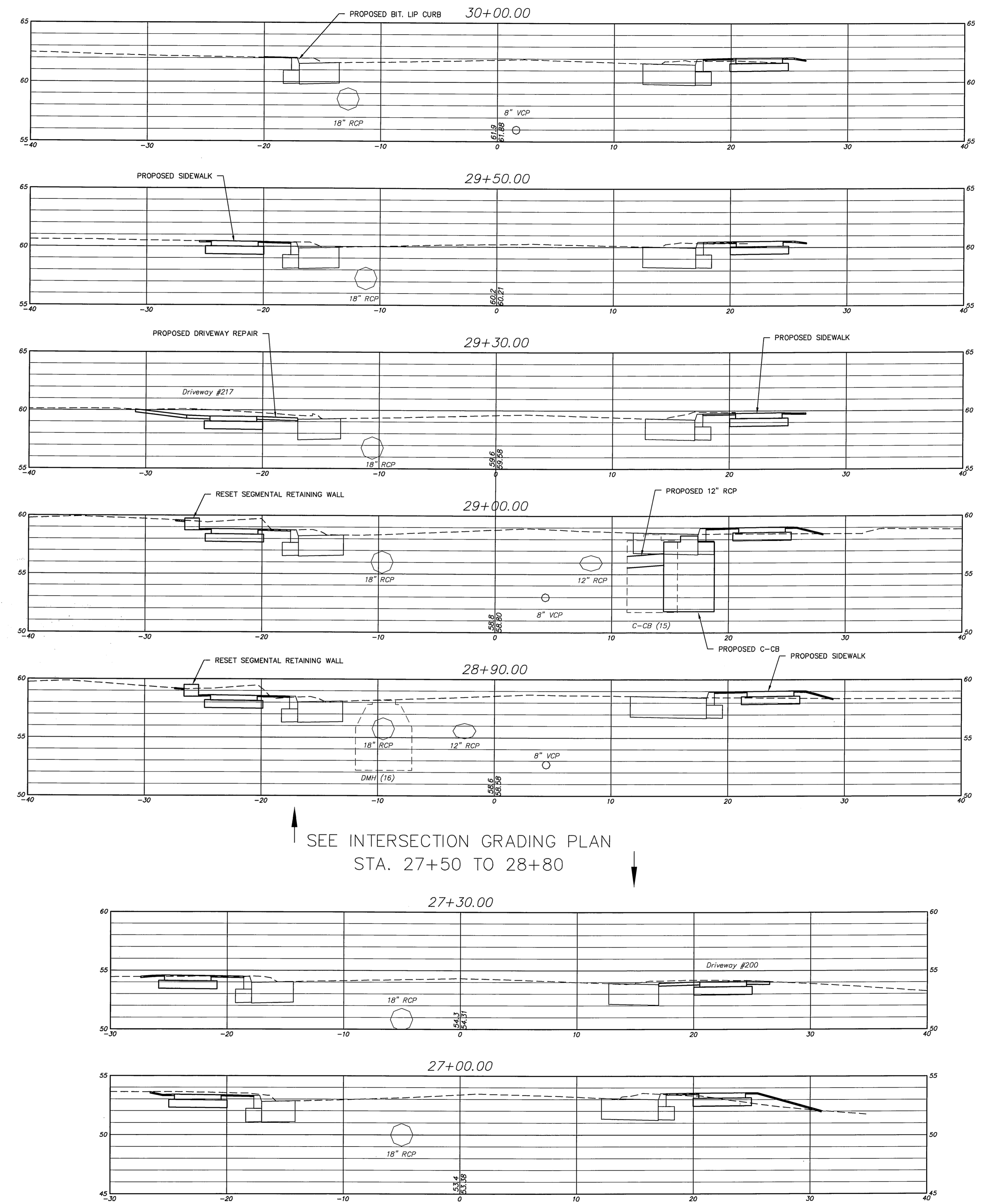
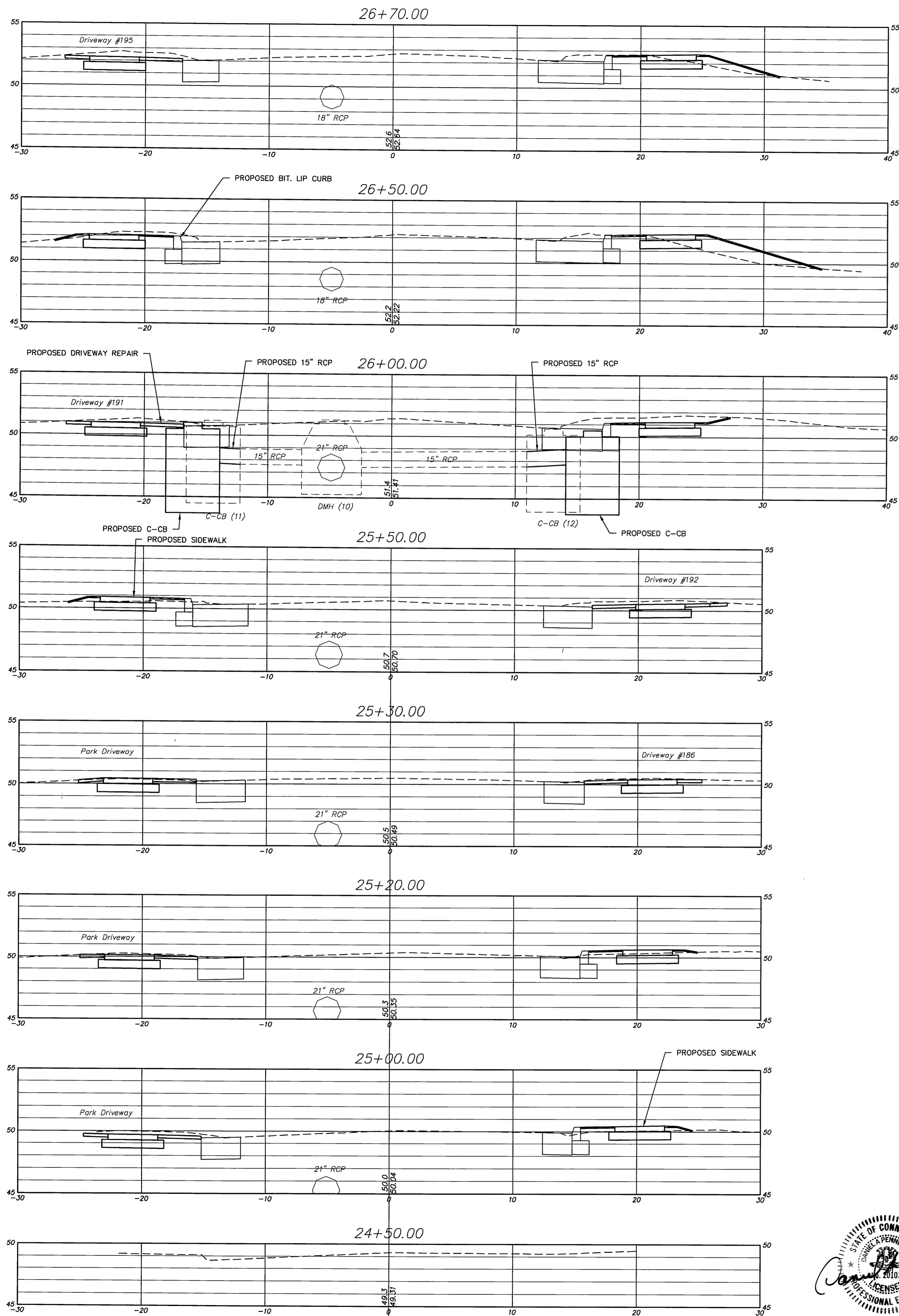
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DRAWN BY: C.F.S.	7/11/2013
CHECKED BY: S.M.B.	4/2/2015
APPROVED BY: D.A.P.	4/2/2015
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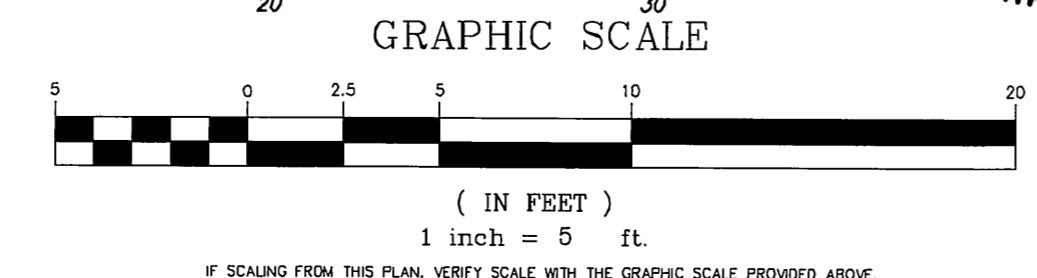
PAVEMENT MARKING AND SIGNING
 INTERSECTION IMPROVEMENTS
 FOR
GRISWOLD STREET
 LOCATED AT
HARRIS & HOUSE STREETS
 GLASTONBURY, CONNECTICUT

SHEET NO.
7
 OF 34

FILE: H:\DWG\SSW\Griswold\SP\1211_Griswold - Harris - House St\Griswold Harris House St_1211.dwg USER: Charles Stuchlik DATE: 4/2/2015

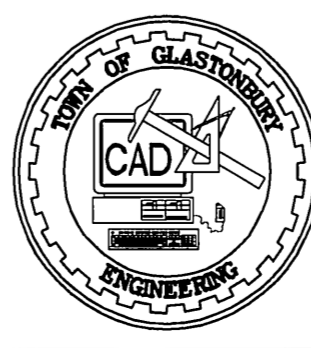


SEE INTERSECTION GRADING PLAN
STA. 27+50 TO 28+80

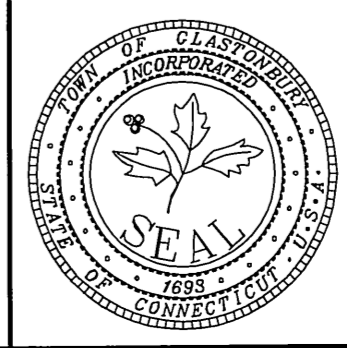
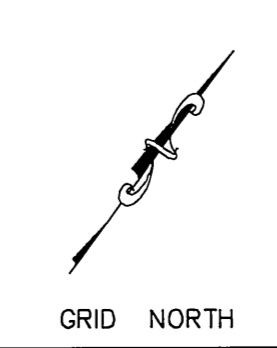


STP 53-187
PW-0920

DRAWING ISSUE STATUS	
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	DATE
	4/2/2015



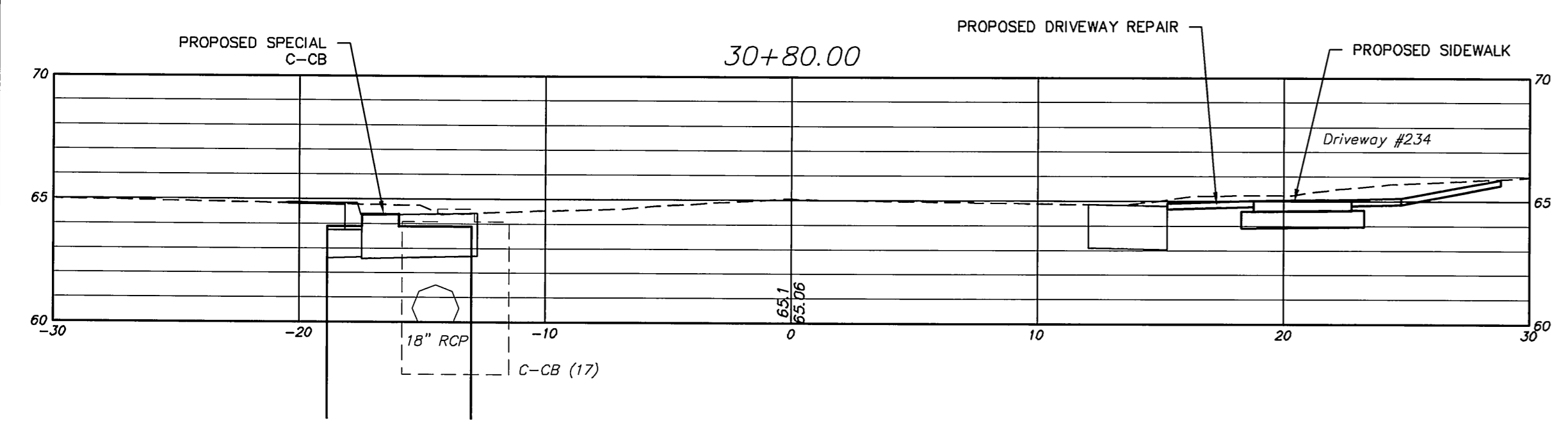
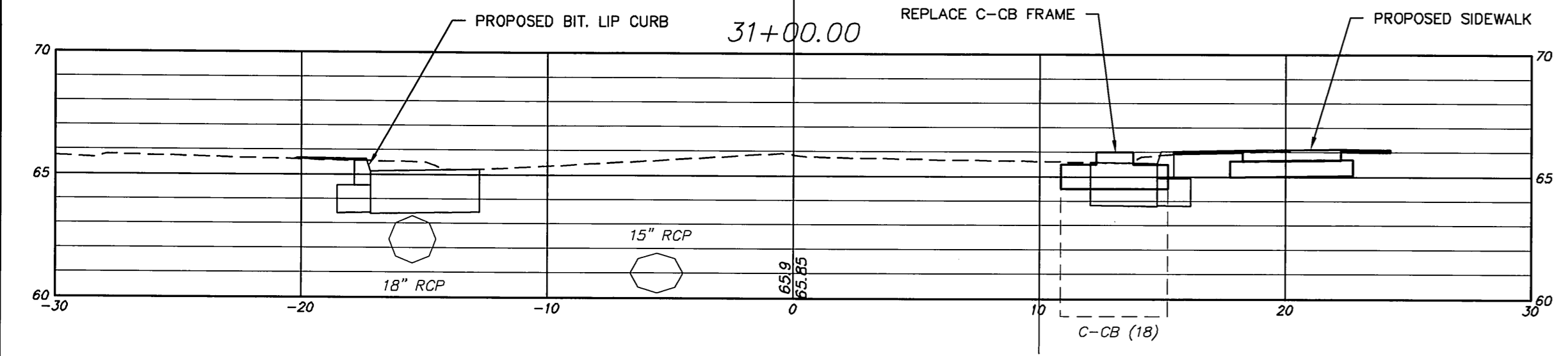
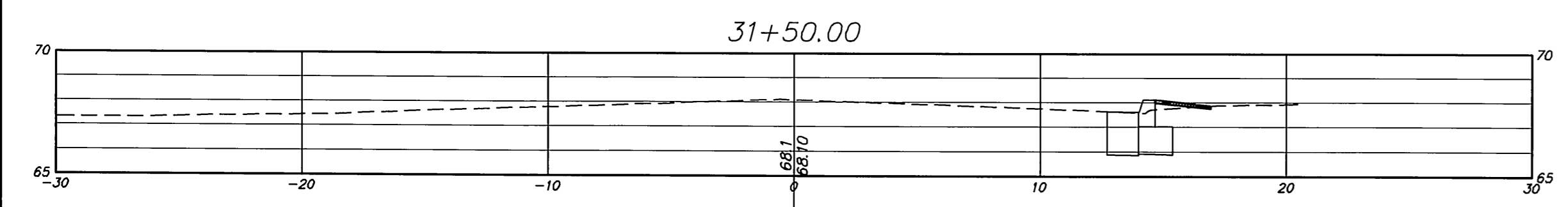
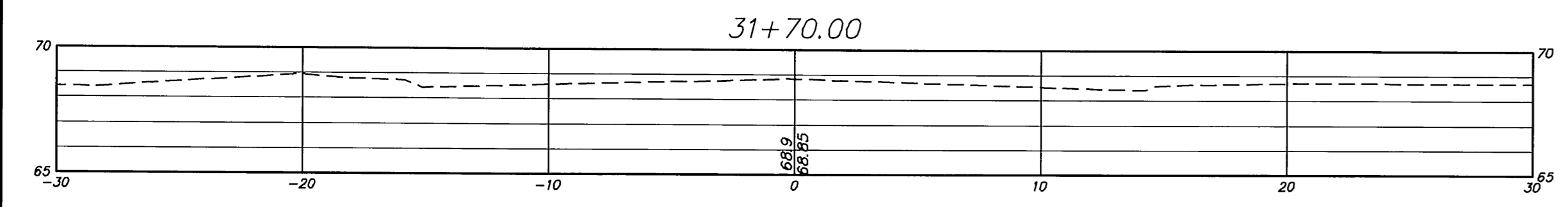
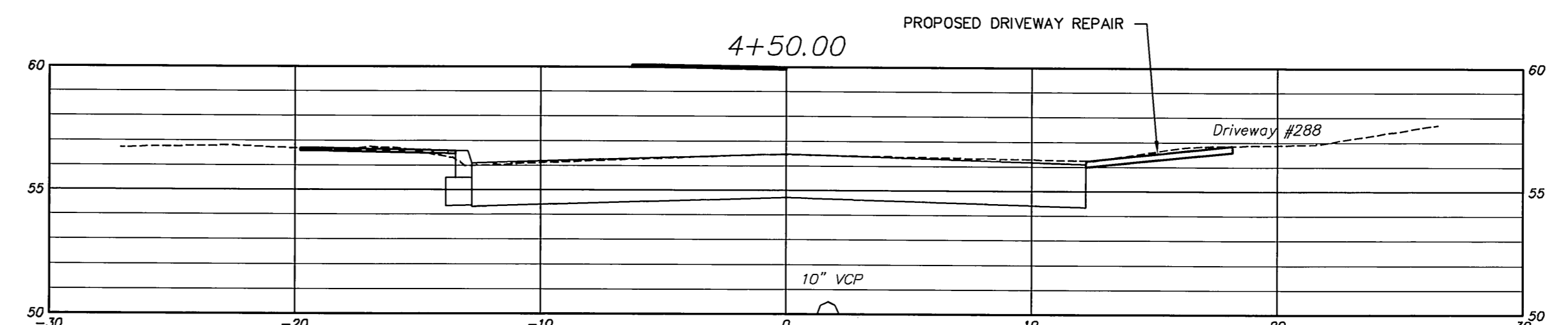
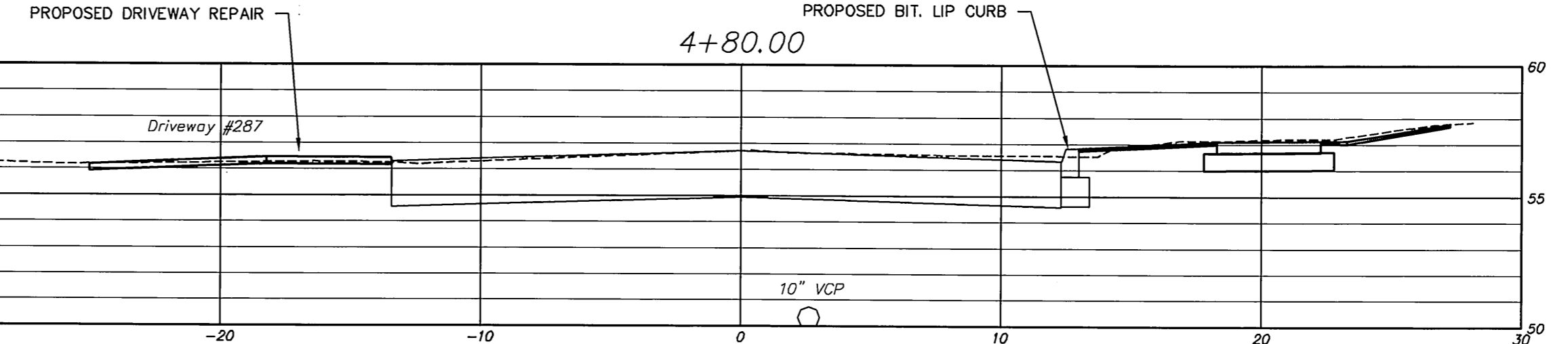
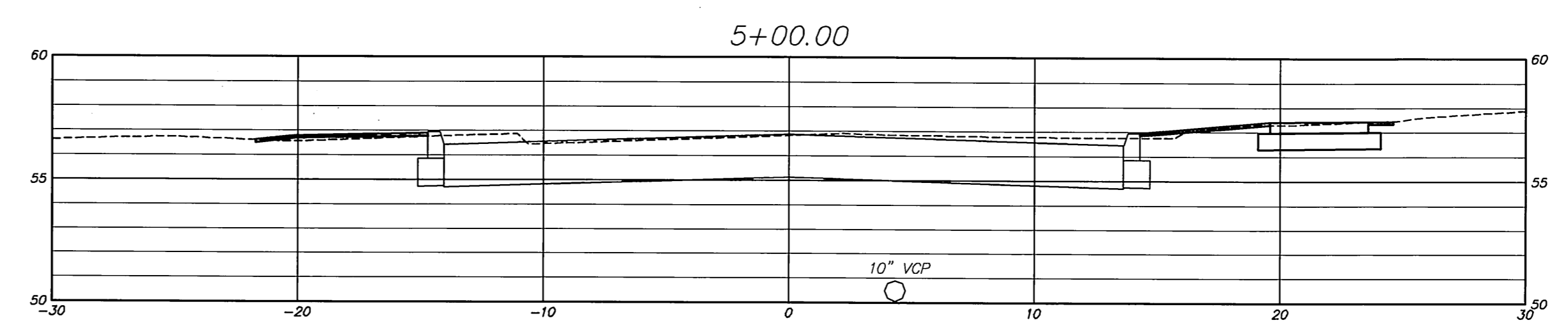
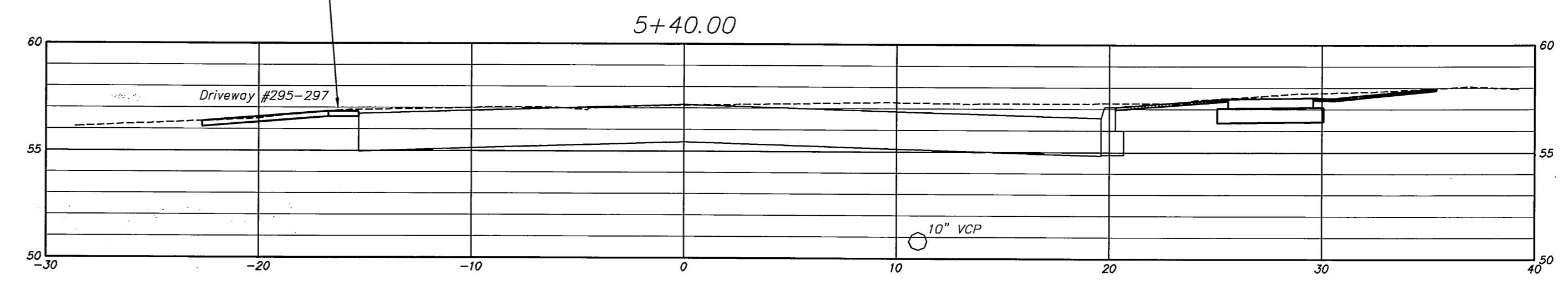
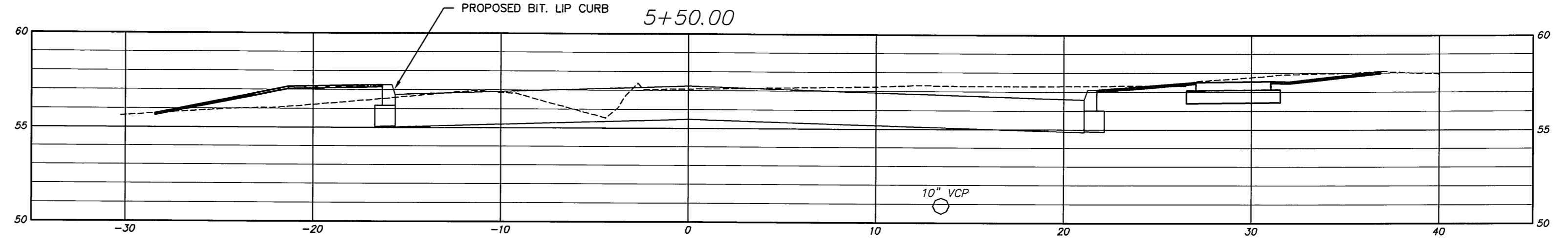
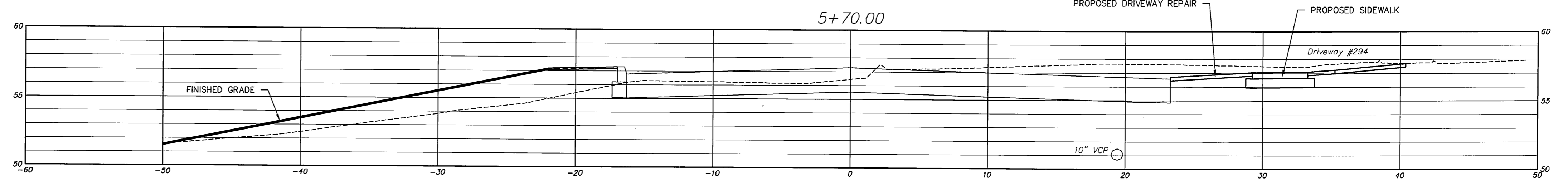
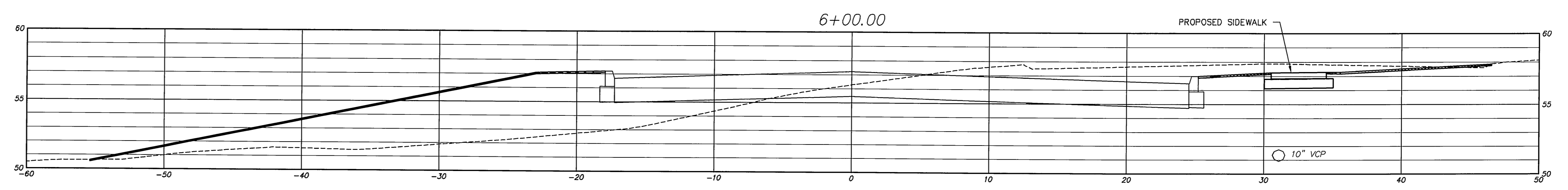
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DRAWN BY: C.F.S.	7/11/2013
CHECKED BY: S.M.B.	4/2/2015
APPROVED BY: D.A.P.	4/2/2015
ST. FILE:	
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DEPICTING
CROSS SECTIONS
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

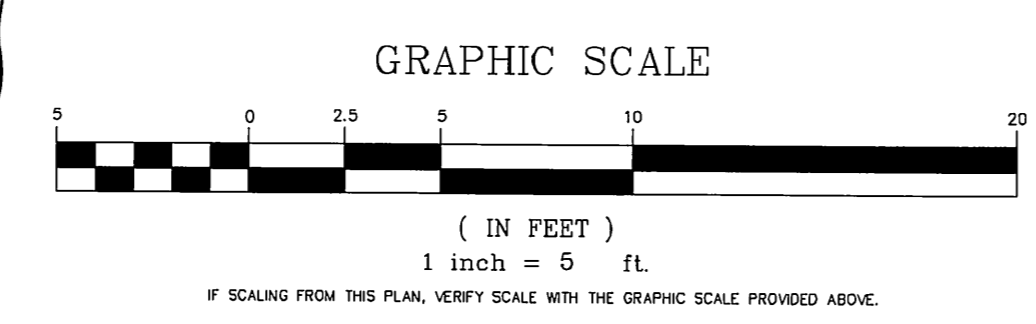
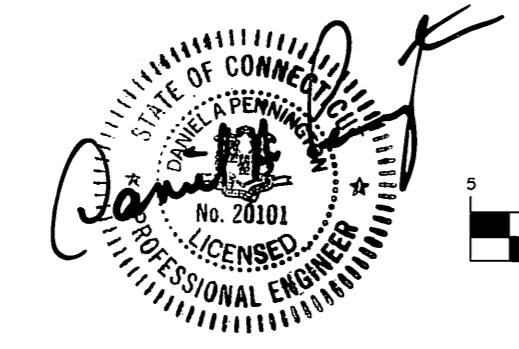
SHEET NO.
8
OF 36

FILE: H:\DWG\Streets\Griswold\STPW-1211_Griswold - Harris - House St.mxd
 USER: Charles Stuchlipfer DATE: 4/2/2015



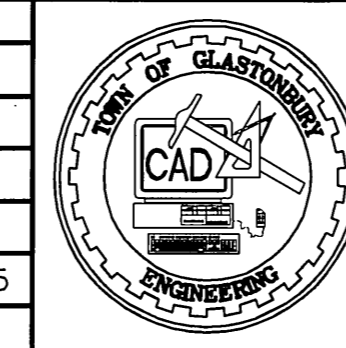
GRISWOLD STREET CROSS SECTION
 STA. 30+58 TO 31+70

HOUSE STREET CROSS SECTION
 STA. 4+50 TO 6+0

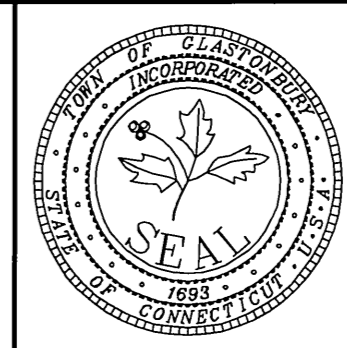
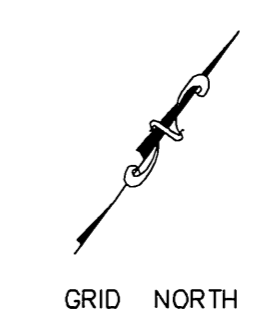


STP 53-187
 PW-0920

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
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SCALE: AS SHOWN
 DATE: 7/11/2013
 DRAWN BY: C.F.S.
 CHECKED BY: S.M.B. 4/2/2015
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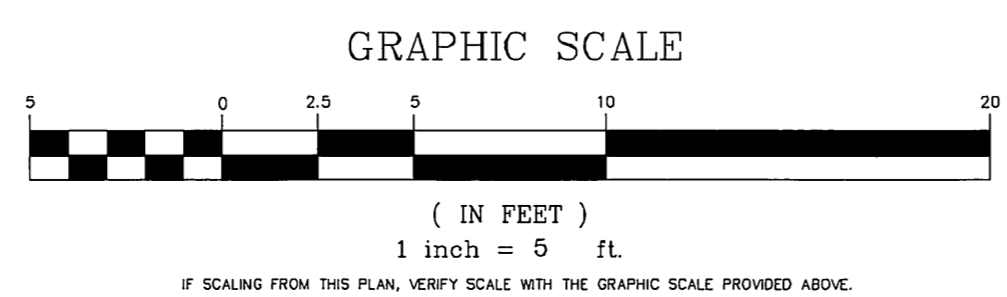
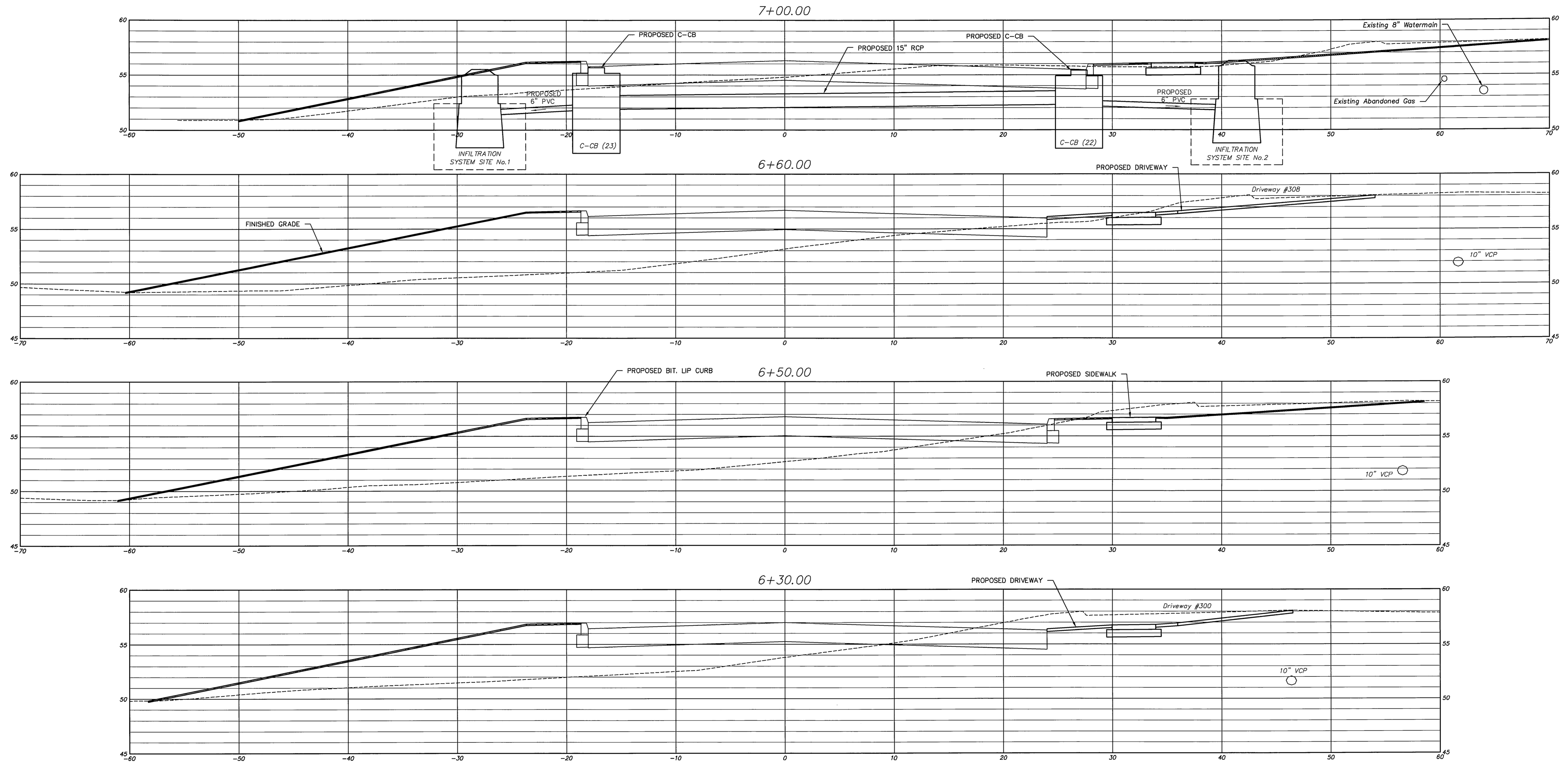


DEPICTING
 CROSS SECTIONS
 FOR
 GRISWOLD STREET
 LOCATED AT
 HARRIS & HOUSE STREETS
 GLASTONBURY, CONNECTICUT

SHEET NO.
9
 OF 36

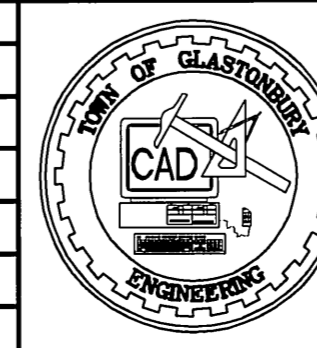
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SEE INTERSECTION GRADING PLAN
STA. 7+20 TO 7+90

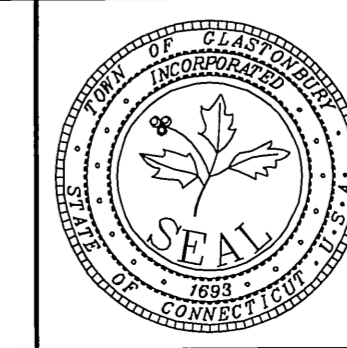
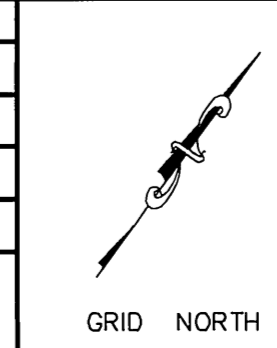


STP 53-187
PW-0920

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	4/2/2015



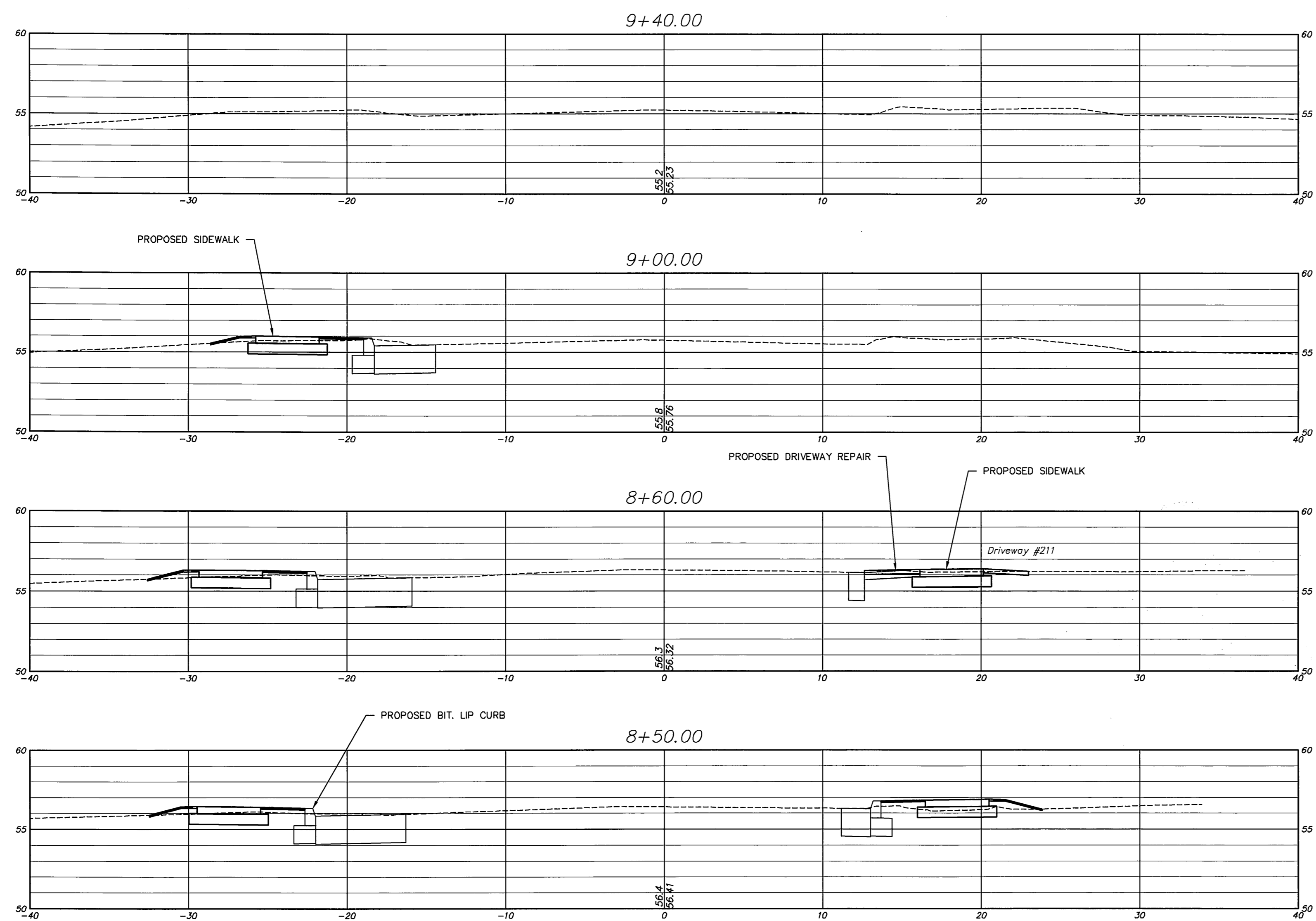
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DRAWN BY: C.F.S.	7/11/2013
CHECKED BY: S.M.B.	4/2/2015
APPROVED BY: D.A.P.	4/2/2015
ST. FILE:	
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.	



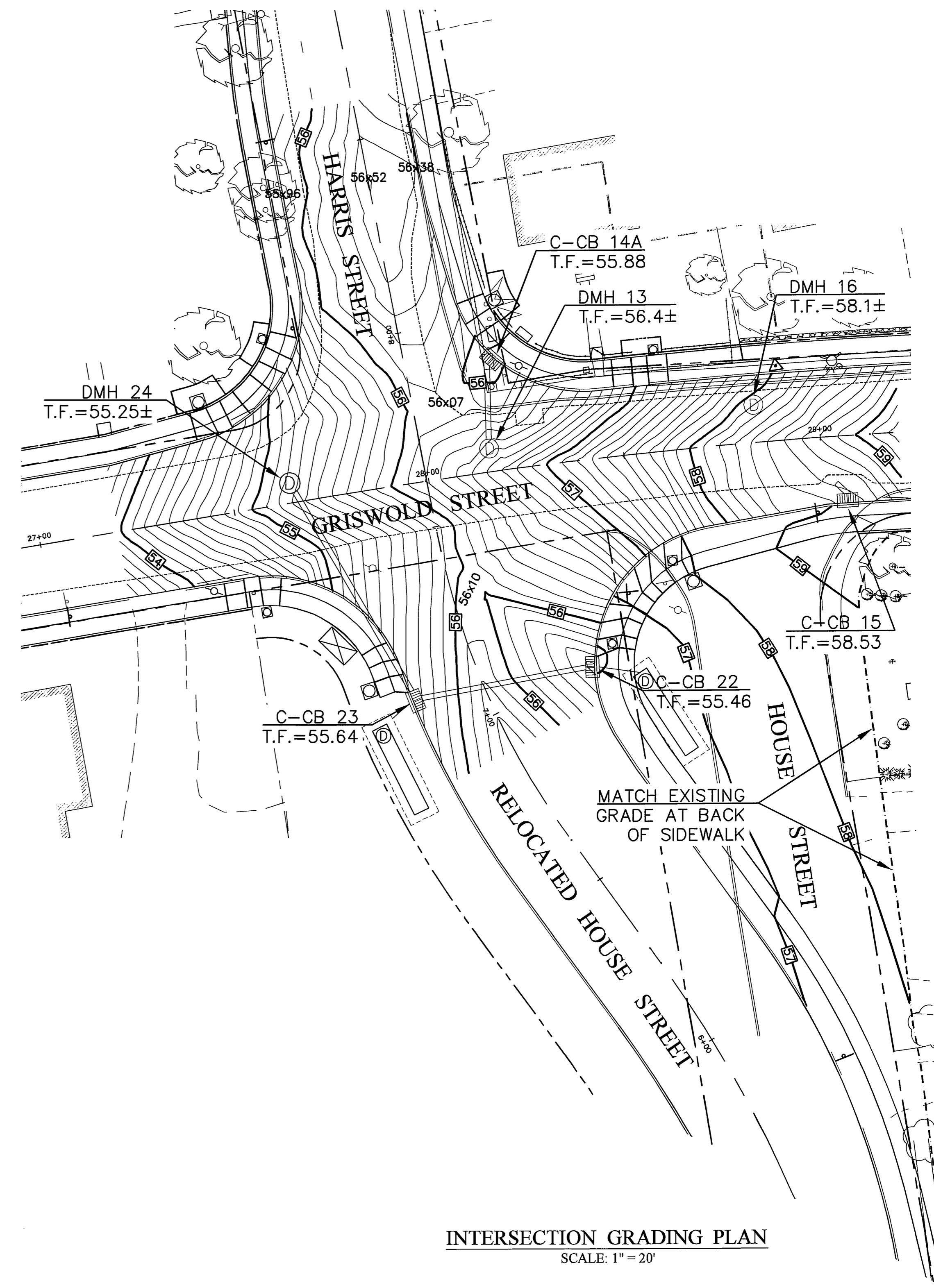
DEPICTING
CROSS SECTIONS
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

SHEET NO.
10
OF 36

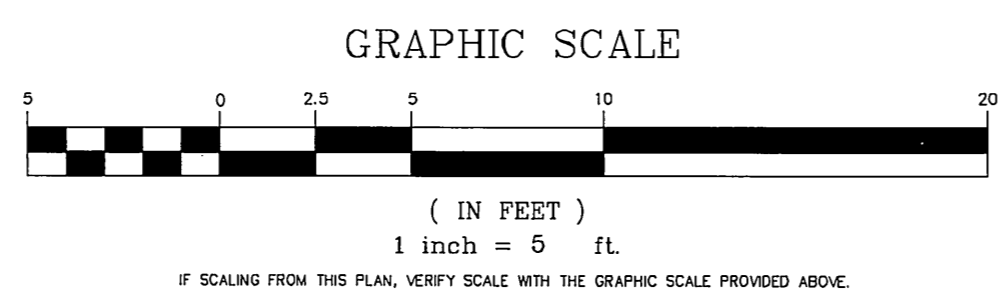
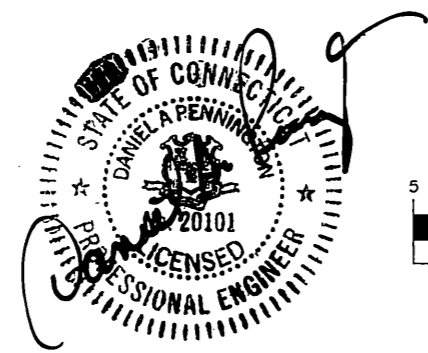
FILE: E:\PROJECTS\Griswold\STIP 1211\Griswold - Harris - House - Stip\Griswold-Harris-House-Stip-Cross.dwg USER: Charles Stamblyper DATE: 4/2/2015



SEE INTERSECTION GRADING PLAN
STA. 7+20 TO 7+90

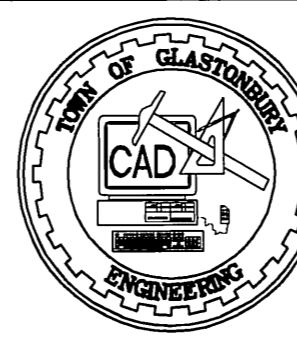


INTERSECTION GRADING PLAN
SCALE: 1" = 20'

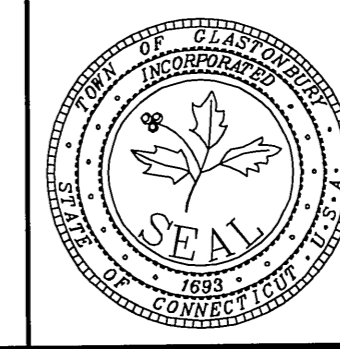
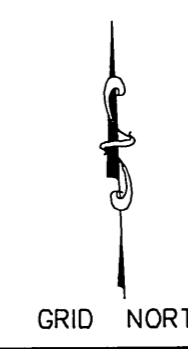


STIP 53-187
PW-0920

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	4/2/2015



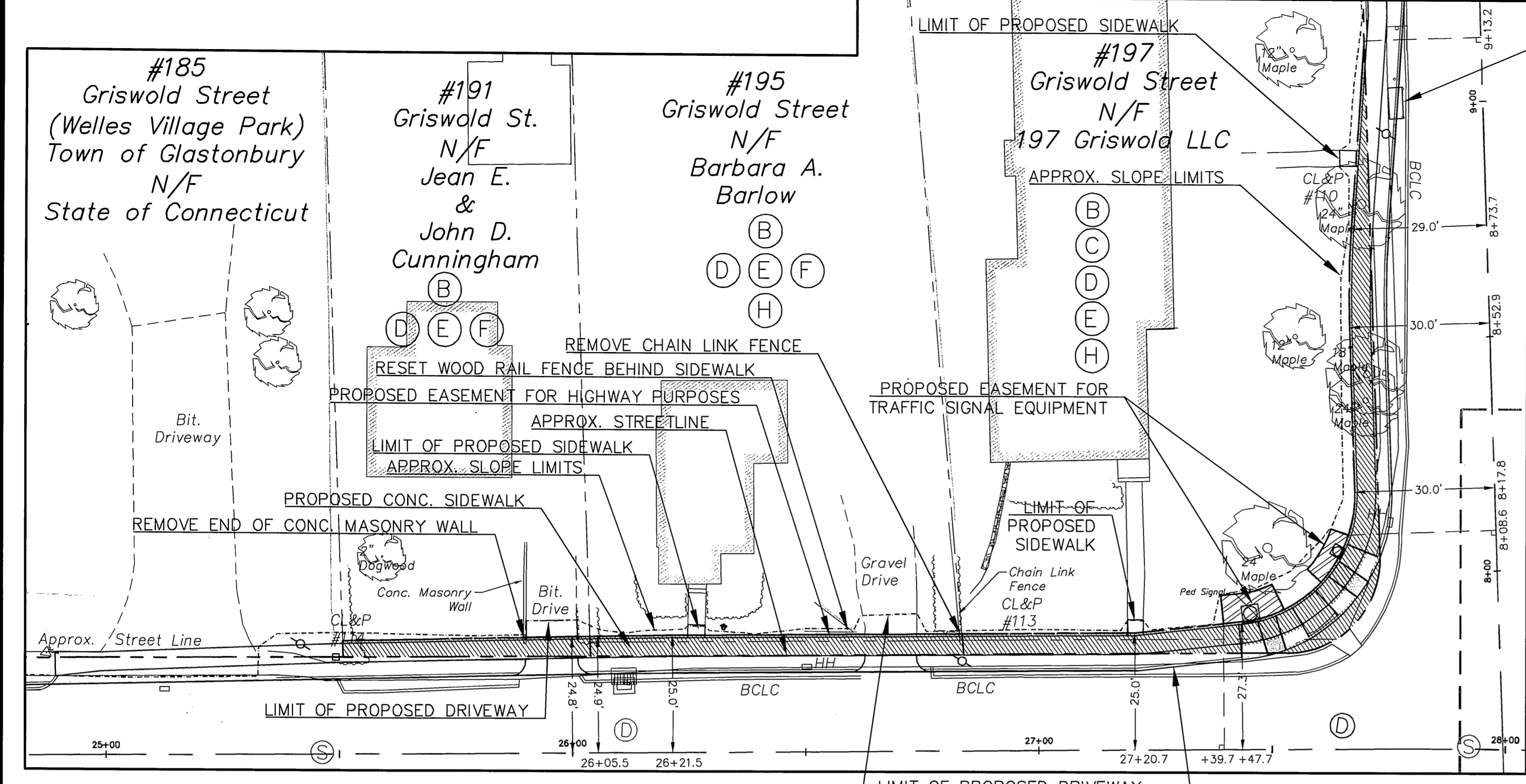
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DRAWN BY: C.F.S.
CHECKED BY: S.M.B. 4/2/2015
APPROVED BY: D.A.P. 4/2/2015
ST. FILE:
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.



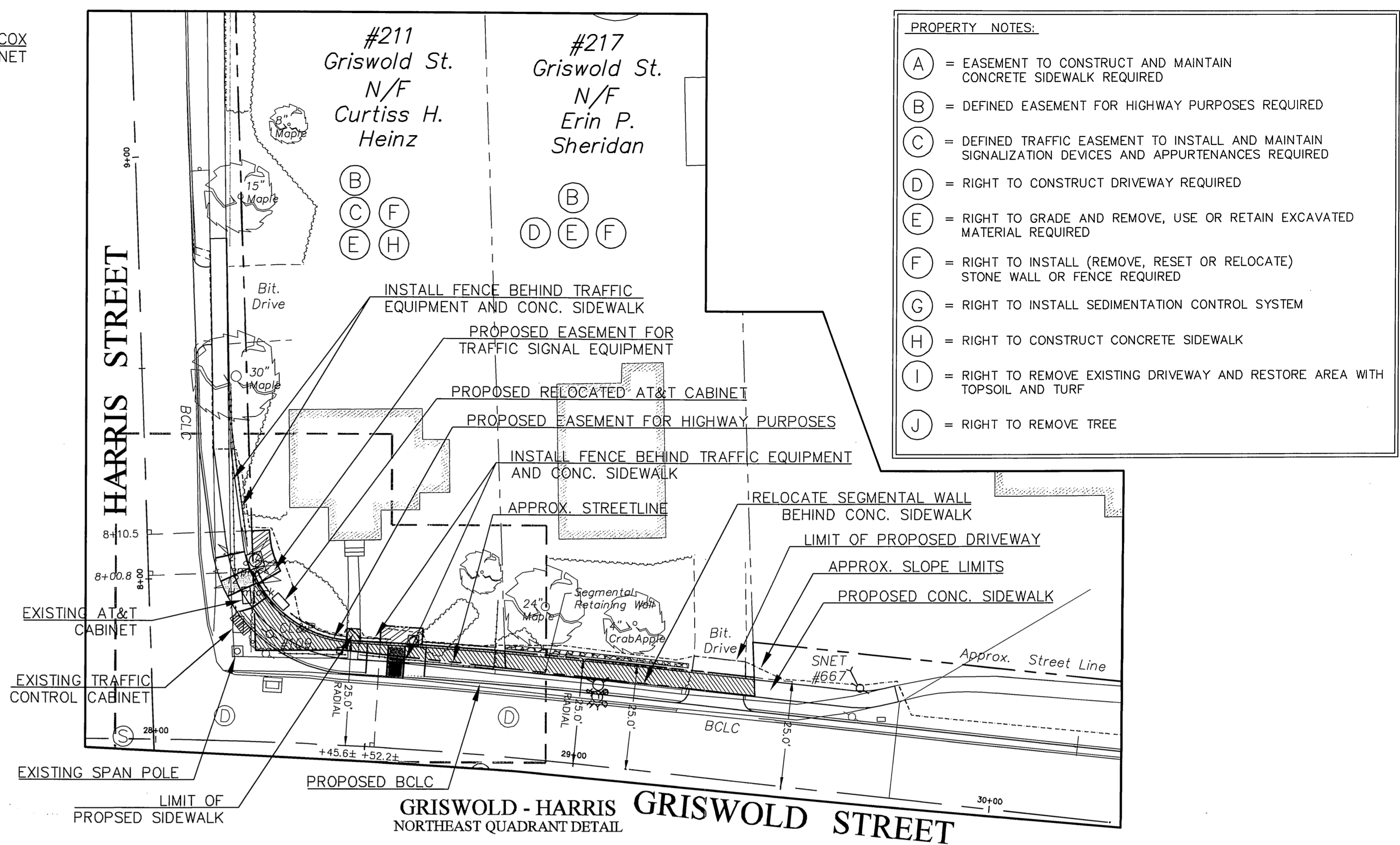
DEPICTING
CROSS SECTIONS & INTERSECTION GRADING PLAN
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

SHEET NO.
11
OF 36

FILE: H:\DWG\Streets\Griswold St\PW-1211 Griswold - Harris - House St Int\Griswold-Harris-House St Int-Const.dwg USER: Charles Stanishajg DATE: 4/2/2015

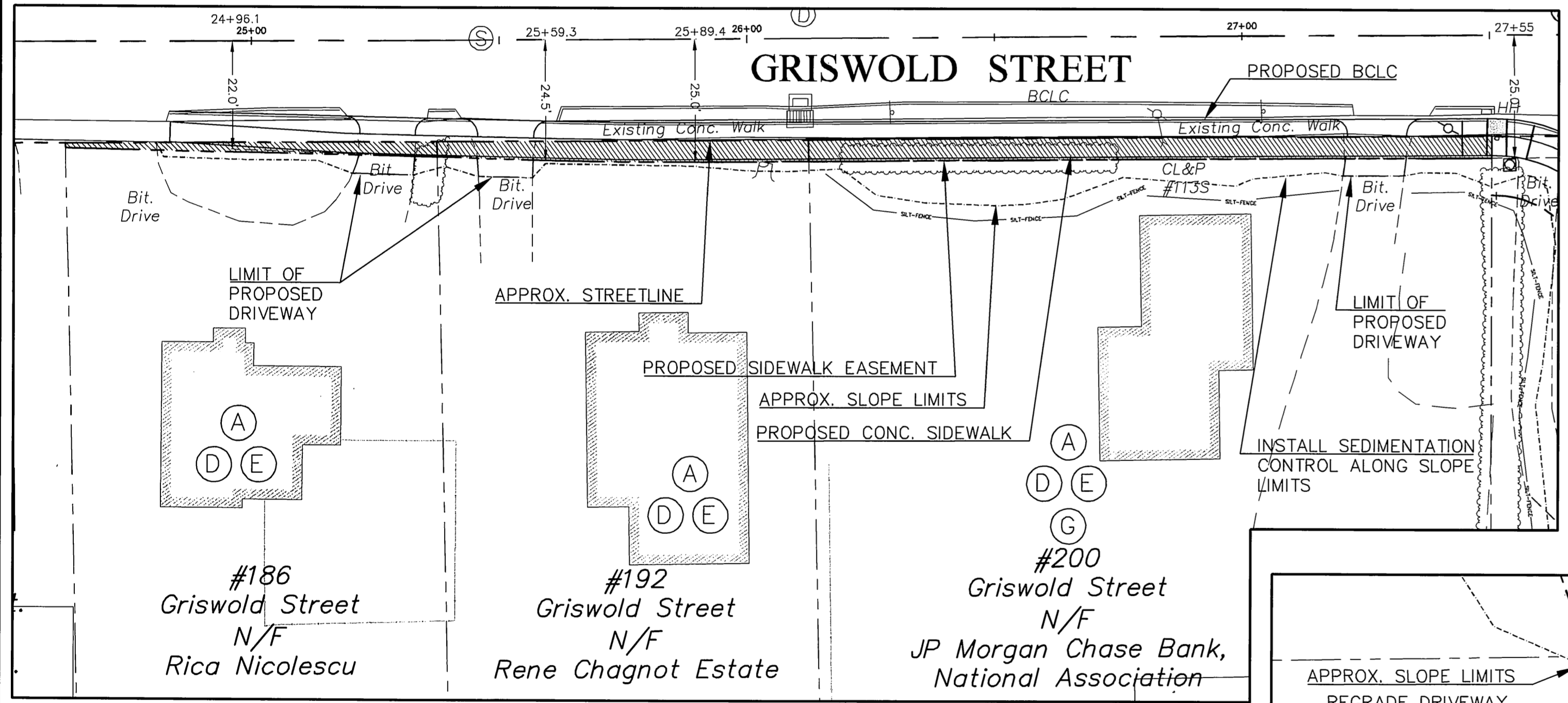


GRISWOLD STREET
GRISWOLD - HARRIS
NORTHWEST QUADRANT DETAIL

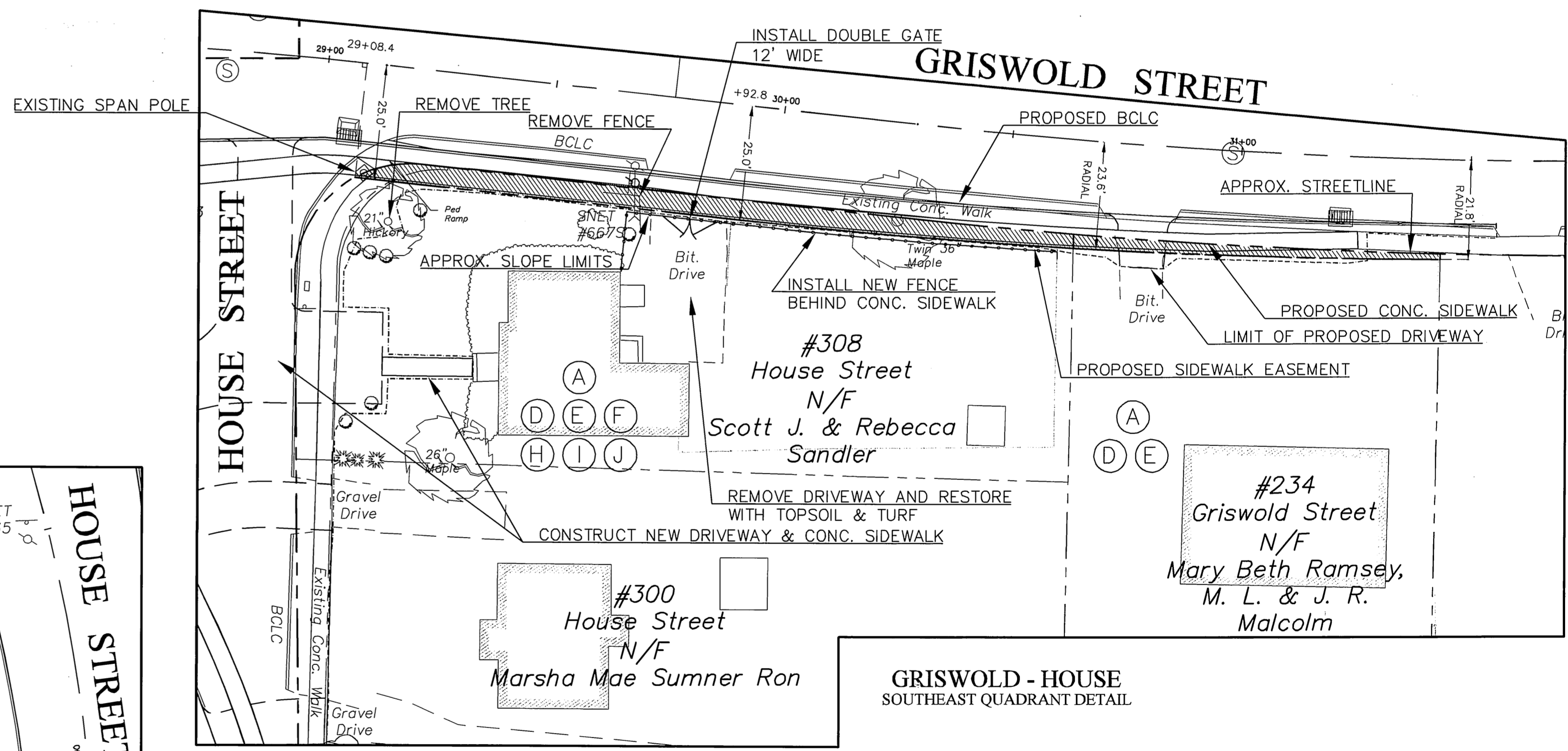


GRISWOLD - HARRIS
GRISWOLD STREET
NORTHEAST QUADRANT DETAIL

- PROPERTY NOTES:**
- (A) = EASEMENT TO CONSTRUCT AND MAINTAIN CONCRETE SIDEWALK REQUIRED
 - (B) = DEFINED EASEMENT FOR HIGHWAY PURPOSES REQUIRED
 - (C) = DEFINED TRAFFIC EASEMENT TO INSTALL AND MAINTAIN SIGNALIZATION DEVICES AND APPURTENANCES REQUIRED
 - (D) = RIGHT TO CONSTRUCT DRIVEWAY REQUIRED
 - (E) = RIGHT TO GRADE AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED
 - (F) = RIGHT TO INSTALL (REMOVE, RESET OR RELOCATE) STONE WALL OR FENCE REQUIRED
 - (G) = RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM
 - (H) = RIGHT TO CONSTRUCT CONCRETE SIDEWALK
 - (I) = RIGHT TO REMOVE EXISTING DRIVEWAY AND RESTORE AREA WITH TOPSOIL AND TURF
 - (J) = RIGHT TO REMOVE TREE

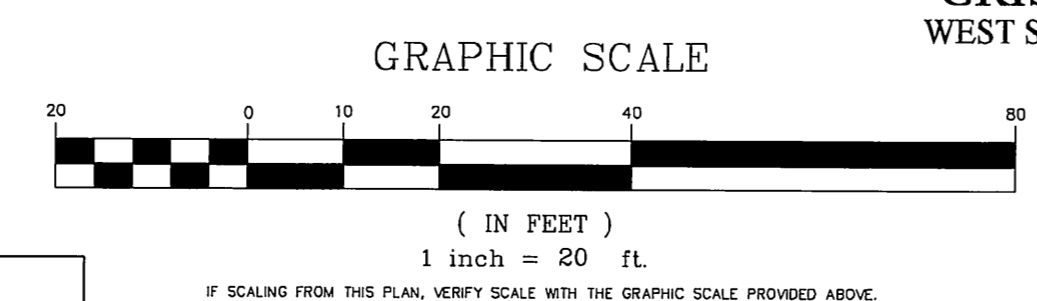
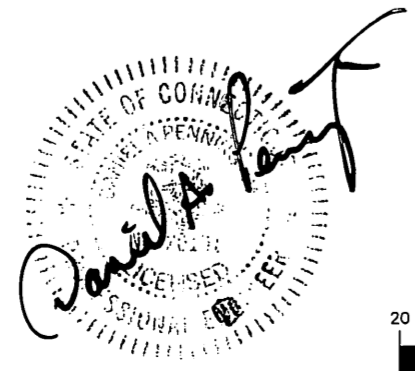


GRISWOLD - HOUSE
SOUTHWEST QUADRANT DETAIL



GRISWOLD - HOUSE
SOUTHEAST QUADRANT DETAIL

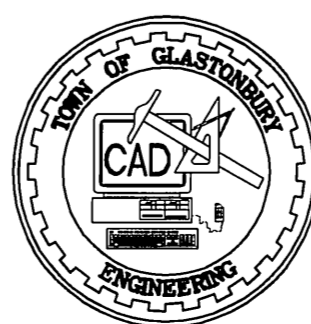
***NOTE:** TOWN OF GLASTONBURY PROPERTY LOCATED AT 210 GRISWOLD STREET WILL REQUIRE 9,152 S.F. TO BE DEEDED AS RIGHT OF WAY. SEE SHEET 5 FOR STREET LINE LAYOUT ON THIS PARCEL.



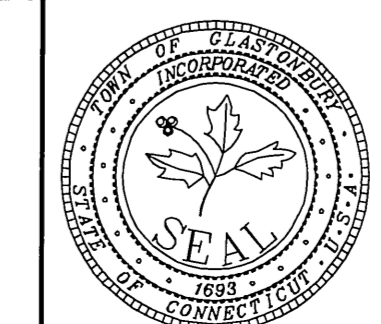
GRISWOLD
WEST SIDE DETAIL

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	4/2/2015

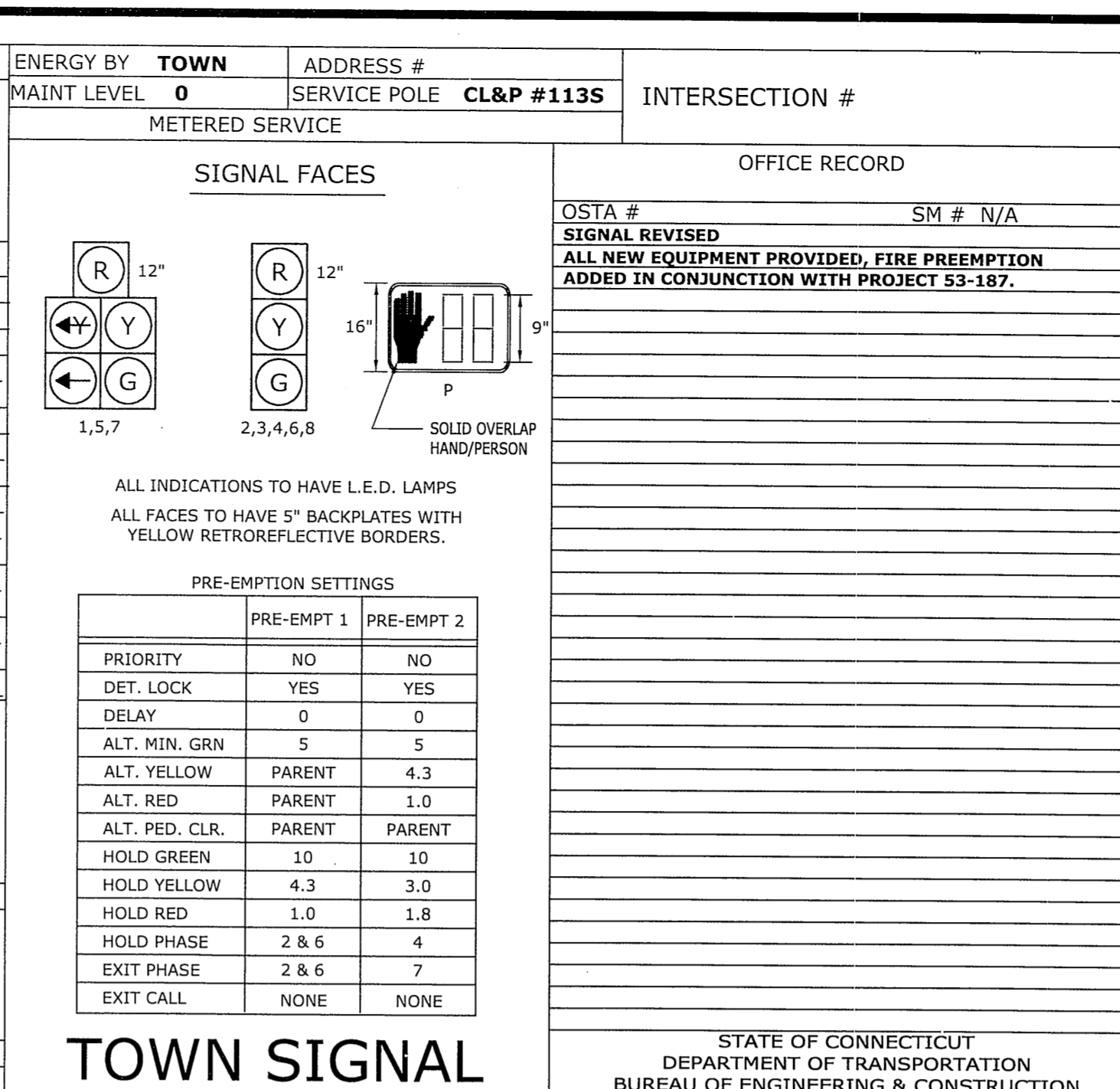
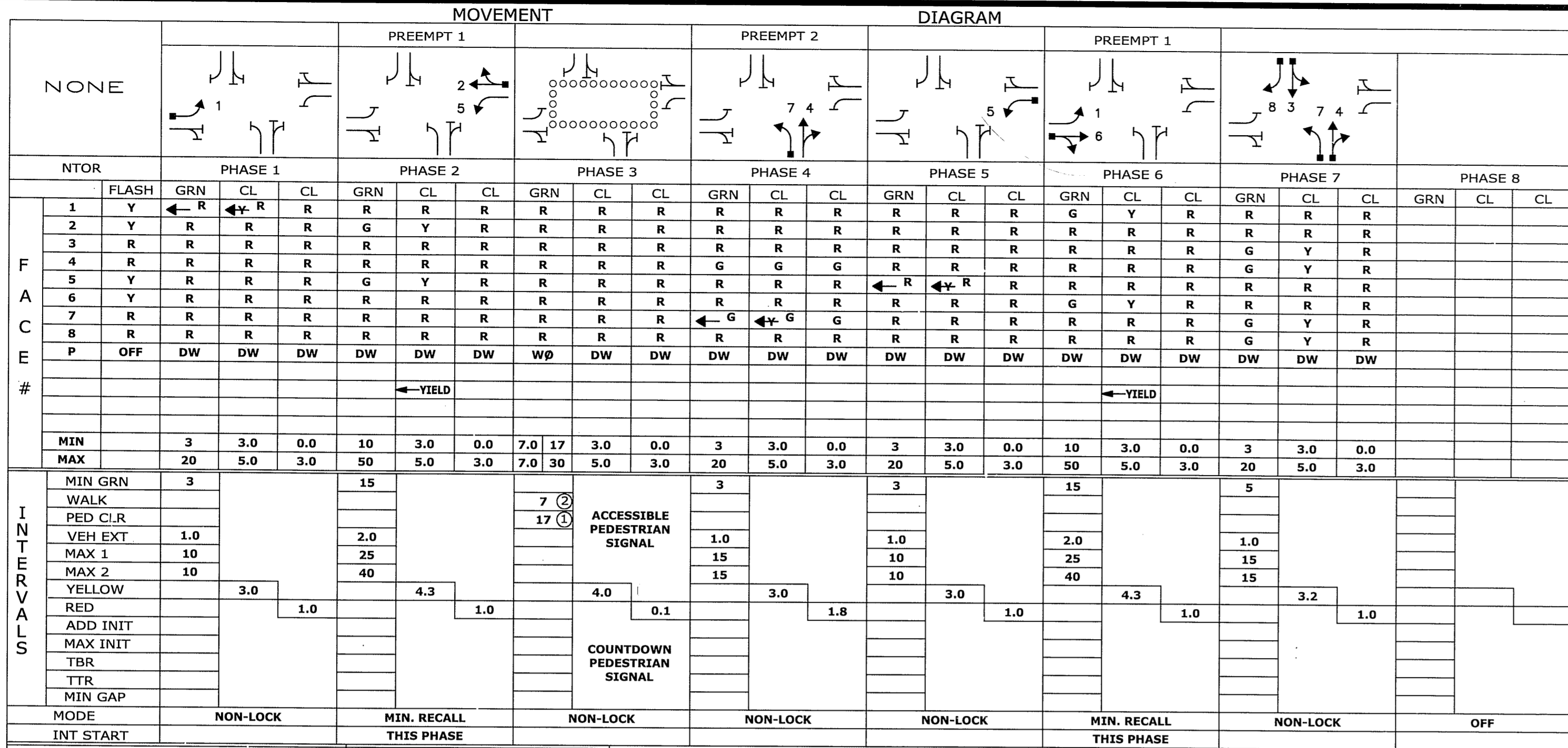
STP 53-187
PW-1211



SCALE:	AS SHOWN	DATE:
DRAWN BY:	C.F.S.	7/11/2013
CHECKED BY:	S.M.B.	4/2/2015
APPROVED BY:	D.A.P.	4/2/2015



PROPERTY IMPACT PLAN
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

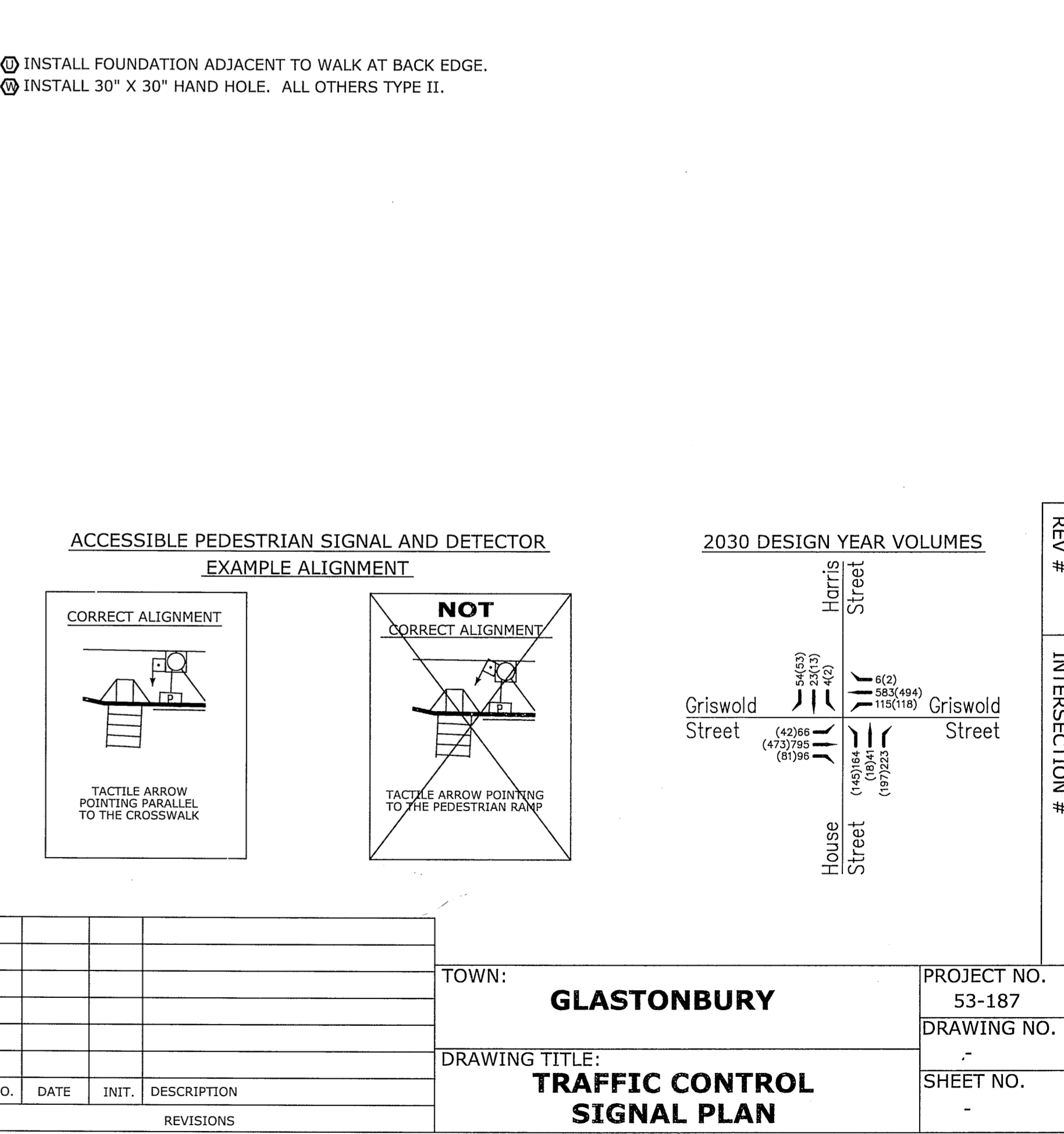
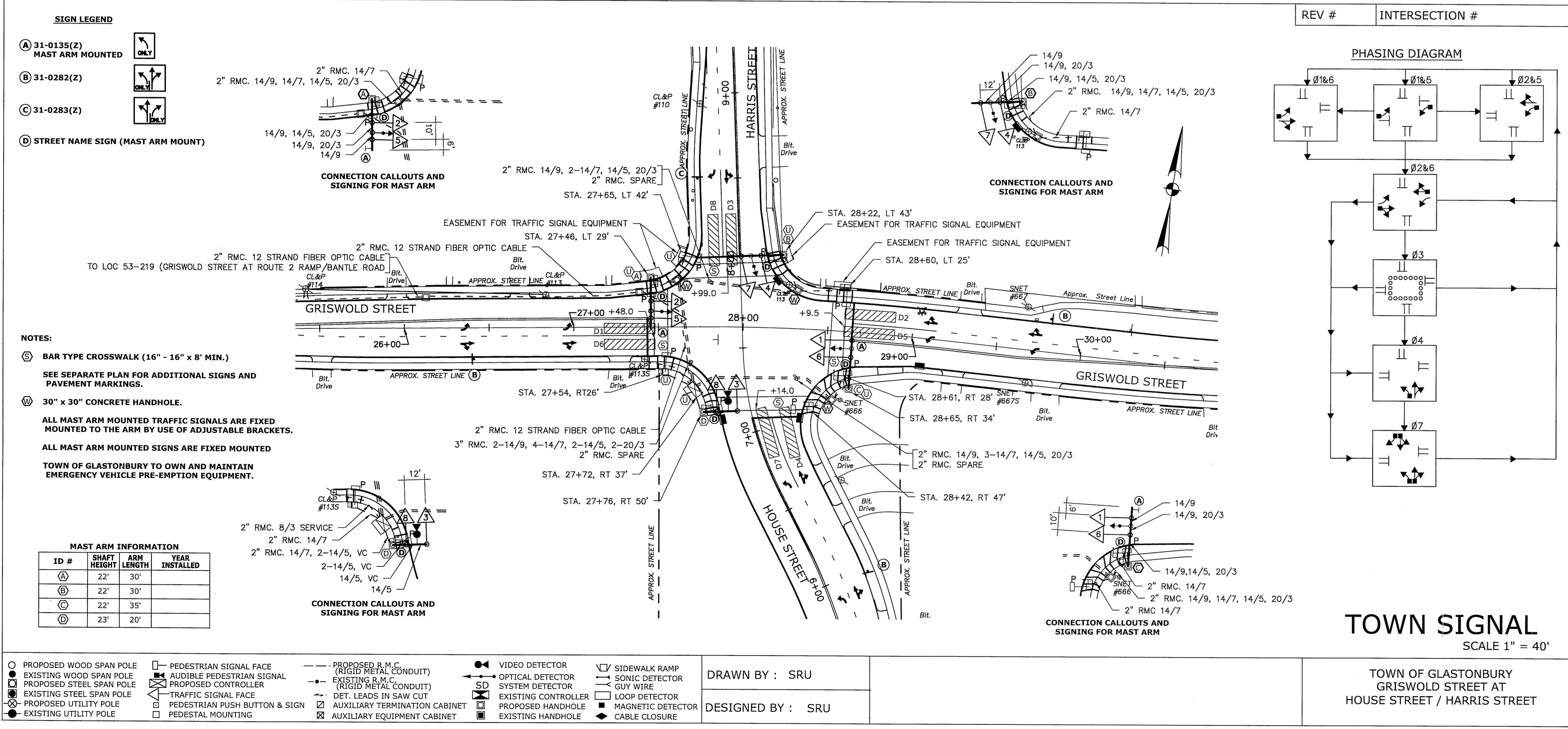


DETECTORS, PROGRAM, COORDINATION TYPE - CLOSED LOOP, PERMITS PERIOD, SYSTEM LOC, TECHNICAL NOTES. Includes a table for detector details and technical notes regarding flashing pedestrian clearance intervals.

TRAFFIC CONTROL SIGNAL, TOWN OF GLASTONBURY, GRISWOLD STREET AT HOUSE STREET / HARRIS STREET. Includes a table for traffic and electrical dates and a legend for signal symbols.

CONSTRUCTION NOTES :

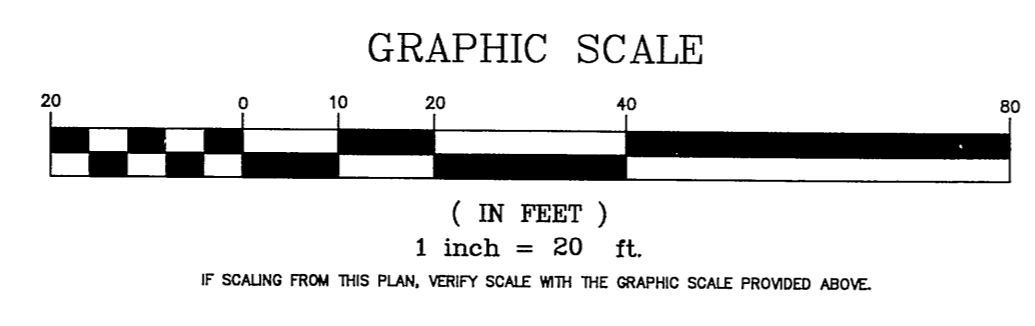
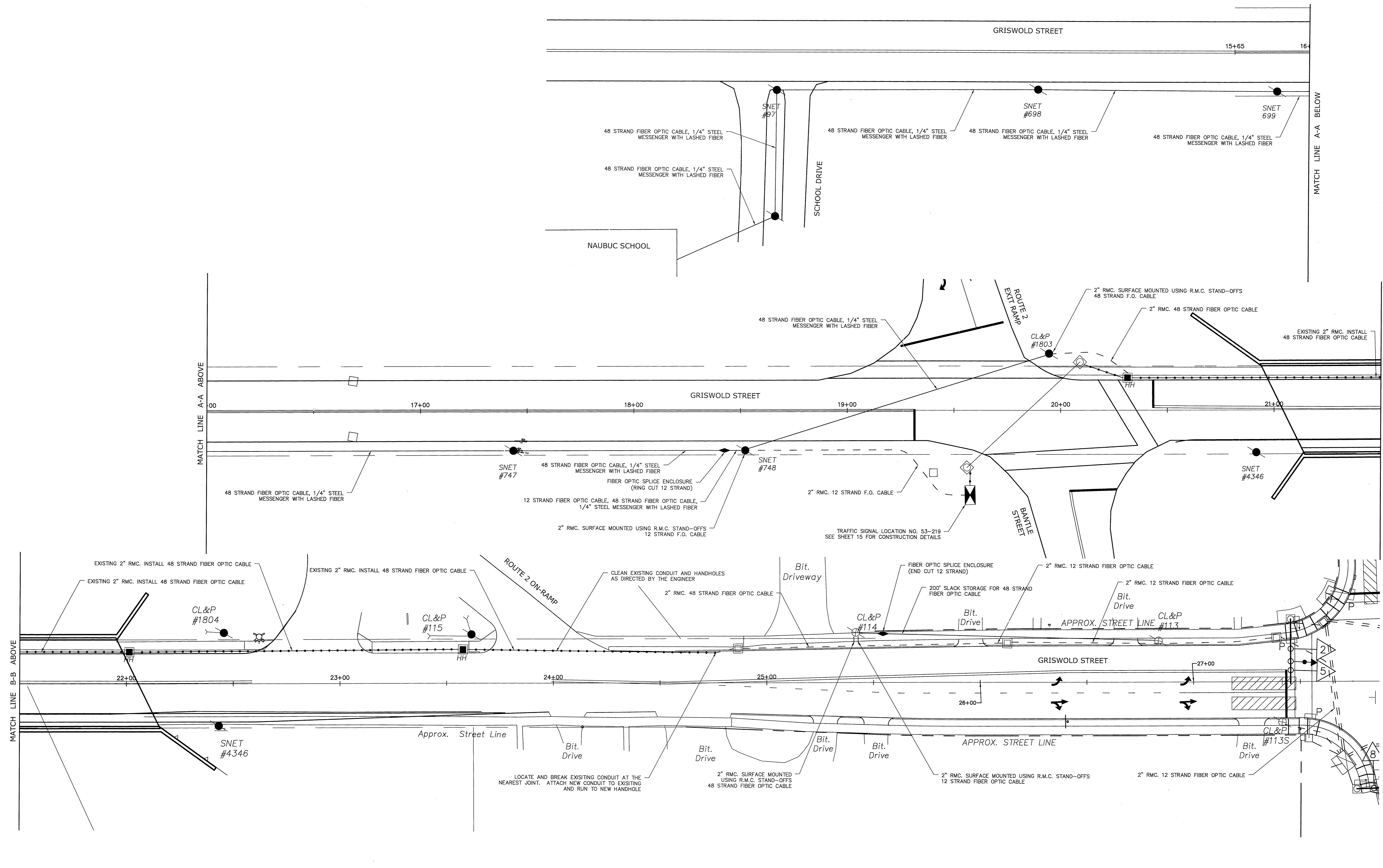
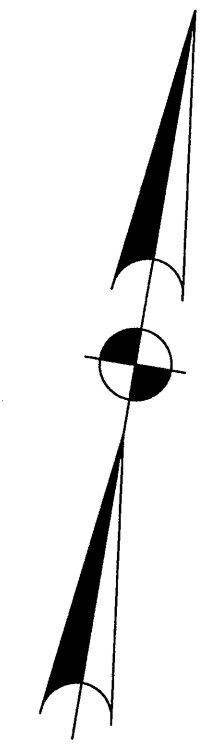
- ALL TRAFFIC SIGNAL EQUIPMENT IS NEW. STAKE ALL R.O.W. PRIOR TO EXCAVATION.
ALL WORK, INCLUDING ALL FOUNDATIONS SHALL BE WITHIN THE R.O.W.
CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR ANY EXCAVATION.
CONTRACTOR SHALL CONTACT UTILITY REPRESENTATIVE AND TOWN AGENCIES FOUR WEEKS PRIOR TO EXCAVATION.
CONTRACTOR SHALL CONTACT MR. DANIEL PENNINGTON, TOWN OF GLASTONBURY, TOWN ENGINEER AT 1-860-652-7736 PRIOR ANY EXCAVATION AND DELIVERY OF ALL SALVAGE MATERIAL.
CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE AND TOWN PERMITS, INCLUDING BUT NOT LIMITED TO: SIDEWALK, CURB AND ROAD OPENING.
ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE THE CONTRACTOR MUST CONTACT THE TOWN ENGINEER.
THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALIZATION DURING CONSTRUCTION.
CONTRACTOR TO PROVIDE FOUR SETS OF CABINET WIRING DIAGRAMS IN THE CABINET.
A VERTICAL CLEARANCE OF 17 TO 18 FEET OVER ROADWAY PAVEMENT IS REQUIRED FOR ALL OVERHEAD TRAFFIC SIGNALS.
INSTALL PEDESTRIAN PUSHBUTTON SIGN 31-0845 ON ALL PEDESTRIAN PUSHBUTTONS.
INSTALL CONTROLLER FOUNDATION ADJACENT TO THE WALK AT THE BACK EDGE. CABINET DOOR TO OPEN FIELD SIDE. INSTALL 3' CONCRETE PAD ON DOOR SIDE OF THE FOUNDATION.
INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.
ALL MAST ARMS TO HAVE 3" ENTRANCE FITTINGS.
REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISIONS.
CONTRACTOR SHALL TRIM ALL NECESSARY BUSHES, SHRUBS, TREES, ETC. OBSTRUCTION TRAFFIC SIGNAL EQUIPMENT OR VISIBILITY OF SIGNAL FACES.
CONTRACTOR SHALL REMOVE ALL SIGNS THAT ARE IN CONFLICT WITH THE PROPOSED SIGNS. SEE SEPARATE PLAN FOR PAVEMENT MARKING AND SIGNING INSTALLATION.
ALL SIGNS DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED AT THE CONTRACTORS EXPENSE.
CONTRACTOR SHALL PROVIDE ALL NECESSARY APPURTENANCES TO CONNECT ELECTRICAL SERVICE TO EXISTING UTILITY POLE AND COORDINATE NEW SERVICE WITH UTILITY COMPANY TO INSURE ELECTRICAL SERVICE IS AVAILABLE FOR SIGNAL ACTIVATION FOLLOWING COMPLETION OF CONTROLLER INSTALLATION AND WIRING.
CONTRACTOR TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.
PRE-EMPTION AND VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS AND DETECTION ZONE SIZES SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE. ALL DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH VIDEO DETECTION CAMERA AND OPTICAL DETECTOR TO THE CONTROLLER CABINET.
COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.



GRAPHIC SCALE (1 inch = 40 feet), DRAWING ISSUE STATUS table, and REVISIONS table.

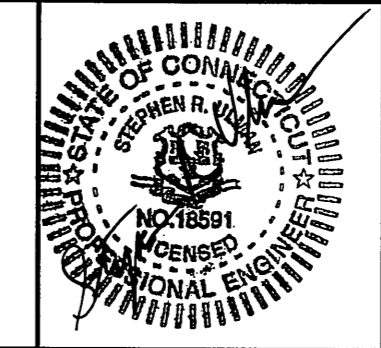
TOWN OF GLASTONBURY PROJECT NO. 53-187, DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN, SHEET NO. 13 OF 35. Includes official seal and drawing information.

FILE: X:\170000\170004.00 Griswold at House Signal\Drawings\Users\J. Utman_Singh\DWG\170004.00 Griswold at House Signal.dwg



DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	4/2/2015

SCALE: AS SHOWN	DATE:
DRAWN BY: S.R.U.	1/6/2014
CHECKED BY: R.S.N.	----
APPROVED BY: S.R.U.	----
ST. FILE:	
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.	



INTERCONNECT PLAN
 INTERSECTION IMPROVEMENTS
 FOR
 GRISWOLD STREET
 LOCATED AT
 HARRIS & HOUSE STREETS
 GLASTONBURY, CONNECTICUT

SHEET NO.
14
 OF 35

PW-0920

N TOR	MOVEMENT DIAGRAM																	
	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8										
	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1				G	Y	R	R	R	R	R	R	R						
2				G	Y	R	R	R	R	R	R	R						
3				R	R	R	R	R	R	R	R	R	G	Y	R			
4				R	R	R	R	R	R	R	R	R	G	Y	R			
P				DW	DW	DW	WØ	DW	DW	DW	DW	DW						
MIN				10	3	0.5	7						10	3	0.5			
MAX				60	5	2.0	20						60	5	2.0			
MIN GRN				20									12					
WALK							7											
PED CLR							15											
VEN EXT													3					
MAX 1													20					
MAX 2													40					
YELLOW																		
RED				4														
ADD INI																		
MAX INI																		
TBR																		
TTR																		
MIN GAP																		
MODE	OFF			MIN RECALL			LOCK						NON LOCK					
INI START																		

IDENT	SIZE	TURNS	MODE	FUNCTION	T I M E	DAYS	COORDINATION TYPE - CLOSED LOOP	PERMITS PERIOD
D1	6 x 12	3	PRES	FLASH	2200-0600	DAILY	OFFSET PHASE SPLITS	SEC / %
D2	12 x 6	3	PRES	MAX 1	ALL OTHER TIMES	DAILY	CYCLE	SEC %
D3	6 x 12	3	PRES	MAX 2	0600-0930	DAILY		
				MAX 2	1530-1900	DAILY		
				PATTERN 1			80	0
				PATTERN 2			65	0
				PATTERN 3			75	0

SYSTEM LOC	TECHNICAL NOTES
MASTER	STANDARD OVERLAP SKIP FEATURES APPLY
GRISWOLD AT HOUSE B / HARRIS	
GRISWOLD AT E.B. RTE / 2 RAMP	
BANTLE RD	

PRE-EMPTION SETTINGS	PRE-EMPT 1
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	PARENT
HOLD GREEN	10
HOLD YELLOW	4.0
HOLD RED	1.0
HOLD PHASE	2
EXIT PHASE	2
EXIT CALL	NONE

STATE OF CONNECTICUT	BUREAU OF HIGHWAYS	DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL		
TOWN OF GLASTONBURY		
EASTBOUND ROUTE 2 RAMP AT GRISWOLD STREET / BANTLE ROAD		
FIELD SURVEY	DATE	DATE
ENGINEER	JOHN J. KASSNER	JA COMPANY, INC.
DRAWN		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
DATE		

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.

TERMINATE THE 12 STRAND FIBER OPTIC DROP CABLE ON A NEW 12 POSITION FIBER OPTIC PATCH PANEL.

CONTRACTOR SHALL CONTACT MR. DANIEL PENNINGTON, TOWN OF GLASTONBURY, TOWN ENGINEER AT 1-860-652-7736 PRIOR ANY EXCAVATION AND DELIVERY OF ALL SALVAGE MATERIAL.

CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE AND TOWN PERMITS, INCLUDING BUT NOT LIMITED TO: SIDEWALK, CURB AND ROAD OPENING.

THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALIZATION DURING CONSTRUCTION.

CONTRACTOR TO PROVIDE FOUR SETS OF CABINET WIRING DIAGRAMS IN THE CABINET.

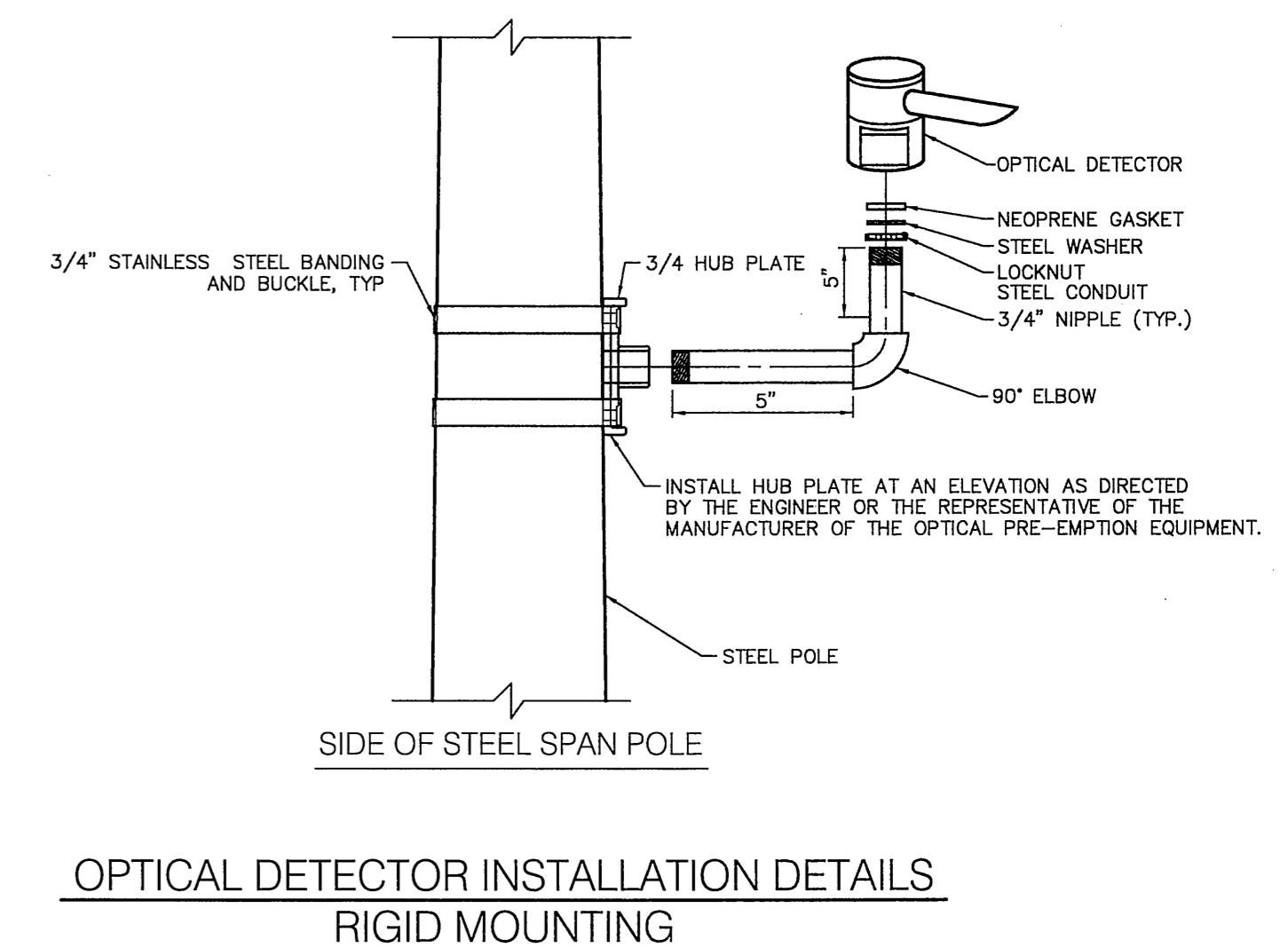
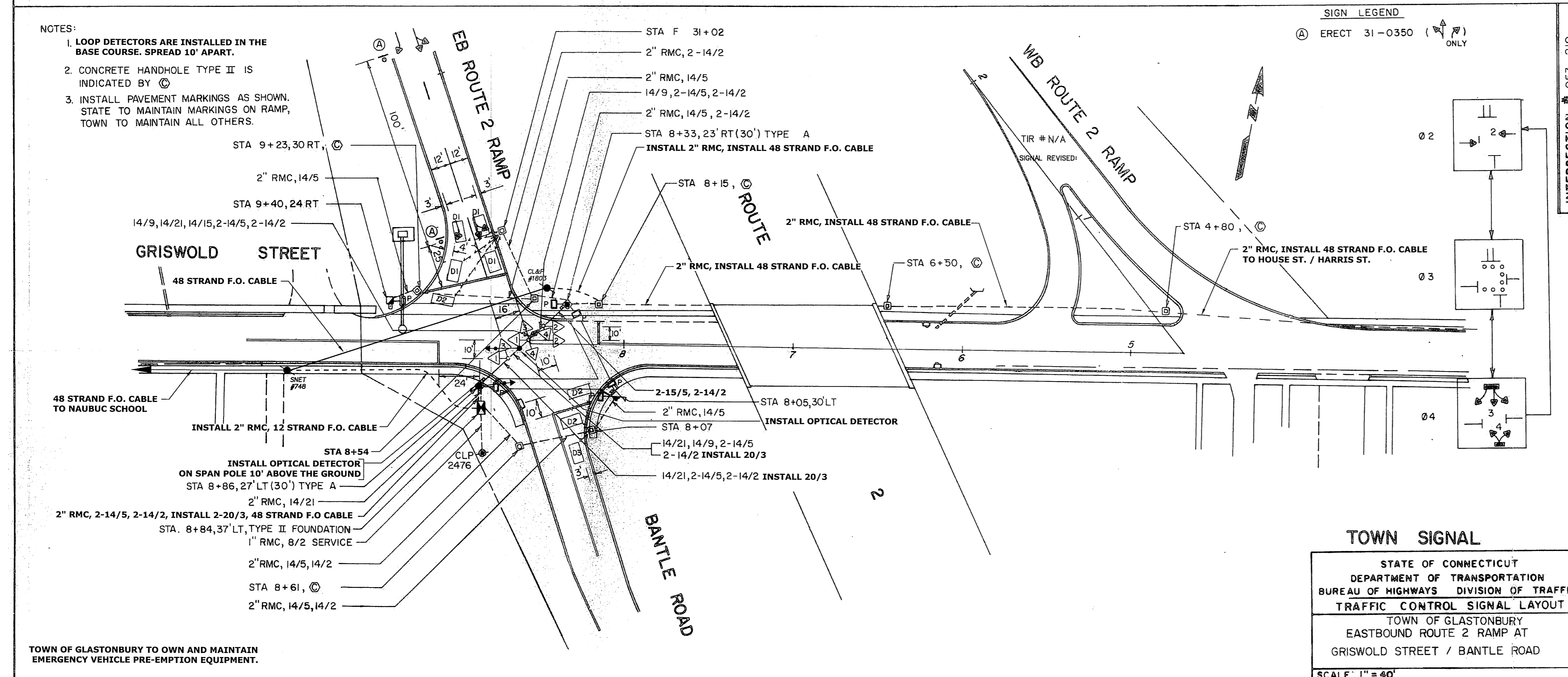
REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISIONS.

THE CONTRACTOR SHALL PROVIDE A NEW CONTROLLER UNIT AND MODIFY THE CONTROLLER CABINET WIRING, SEQUENCE AND TIMING INCLUDING ALL NECESSARY EQUIPMENT AND WIRING TO PROVIDE THE OPERATION SHOWN ON THIS PLAN. SEE THE SPECIAL PROVISION #1108163A "MODIFY EXISTING CONTROLLER"

CONTRACTOR TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

EXACT LOCATIONS OF THE OPTICAL DETECTORS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE. ALL DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH OPTICAL DETECTOR TO THE CONTROLLER CABINET.

USE THE COORDINATION AND PRE-EMPTION SETTINGS SHOWN:

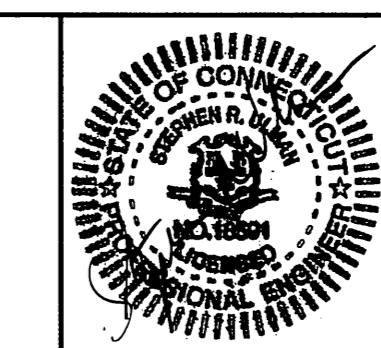


NOT TO SCALE

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
1.	ISSUED FOR CONSTRUCTION	4/2/2015	
NO.	DESCRIPTION	DATE	

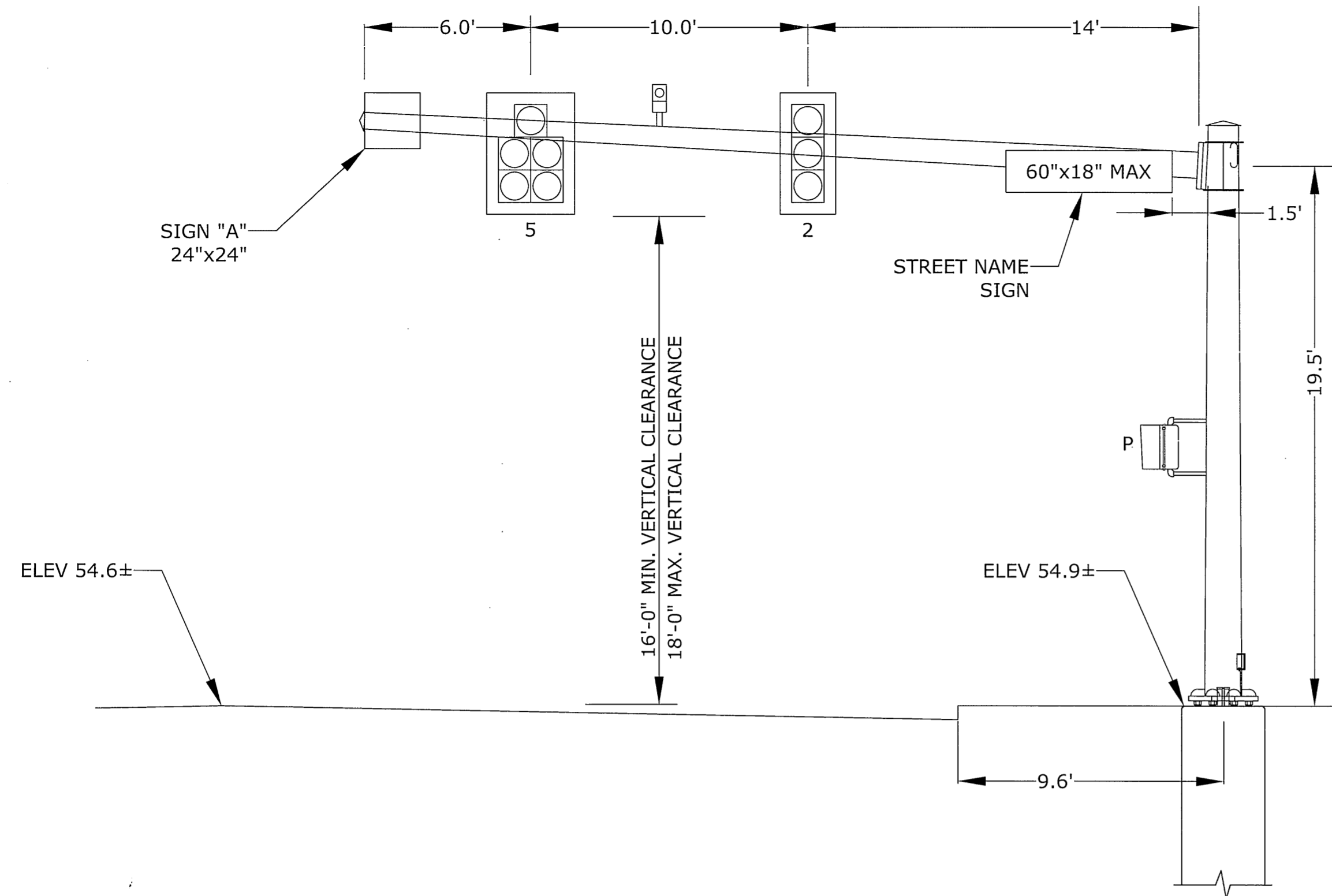
DRAWN BY: S.R.U.	10/1/2014
CHECKED BY: R.S.N.	
APPROVED BY: S.R.U.	
ST. FILE:	

DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.

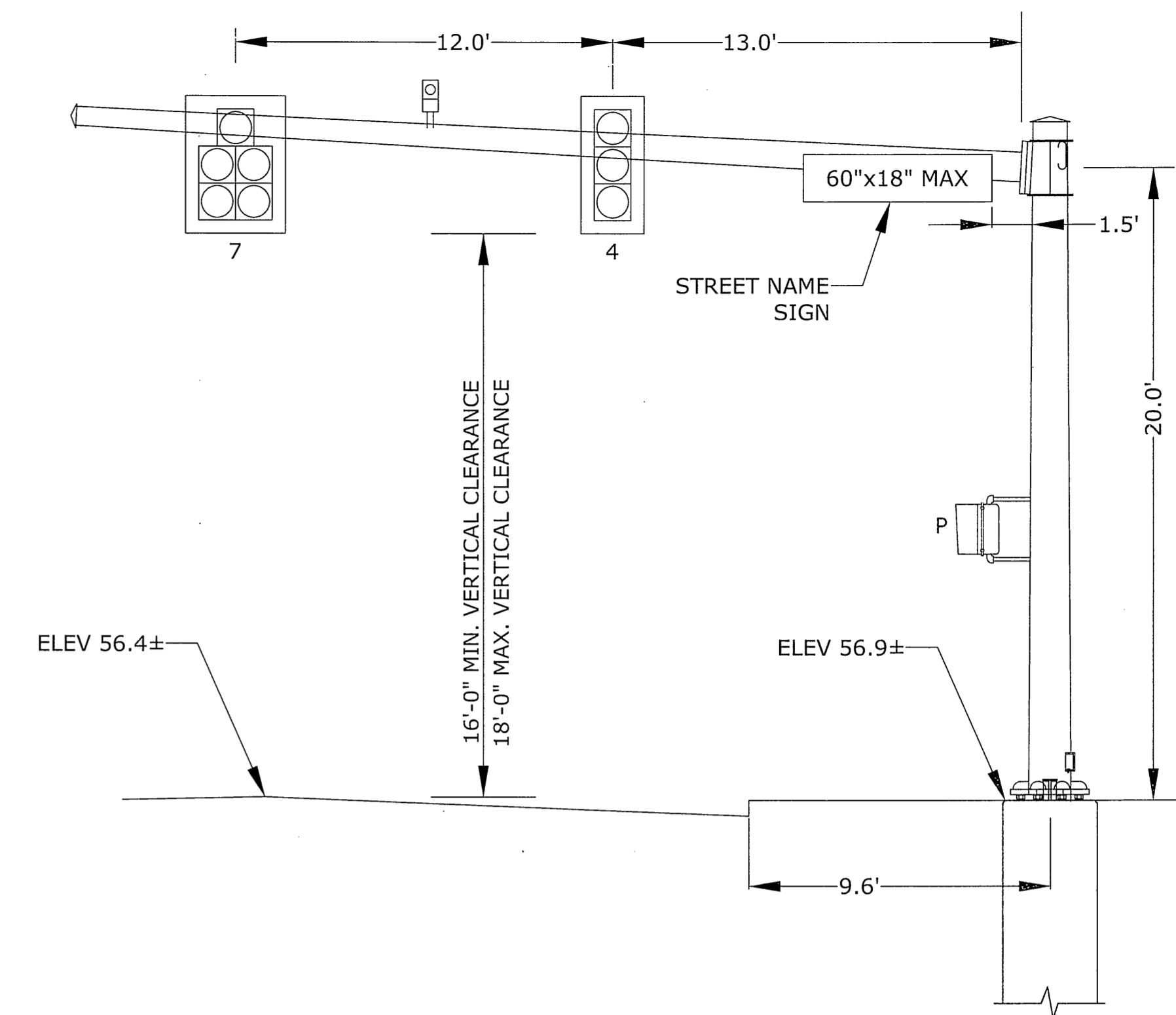


LOCATION 53-219
INTERSECTION IMPROVEMENTS
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

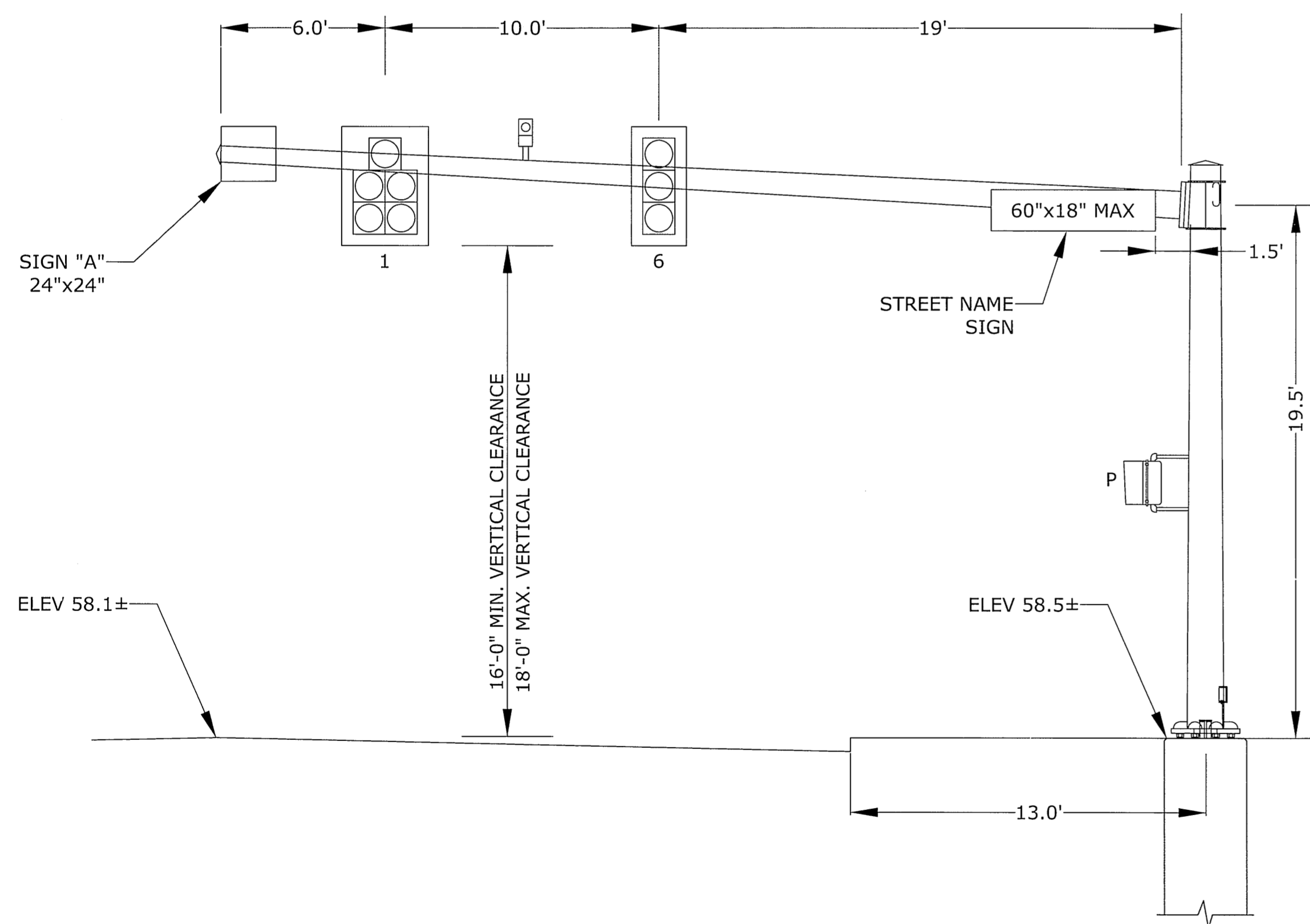
FILE: X:\7000\7048 00 Control & House Signal\Drawings\Signal\Plan.dwg USER: Ulman, Stephen L. DATE: 2/20/2015



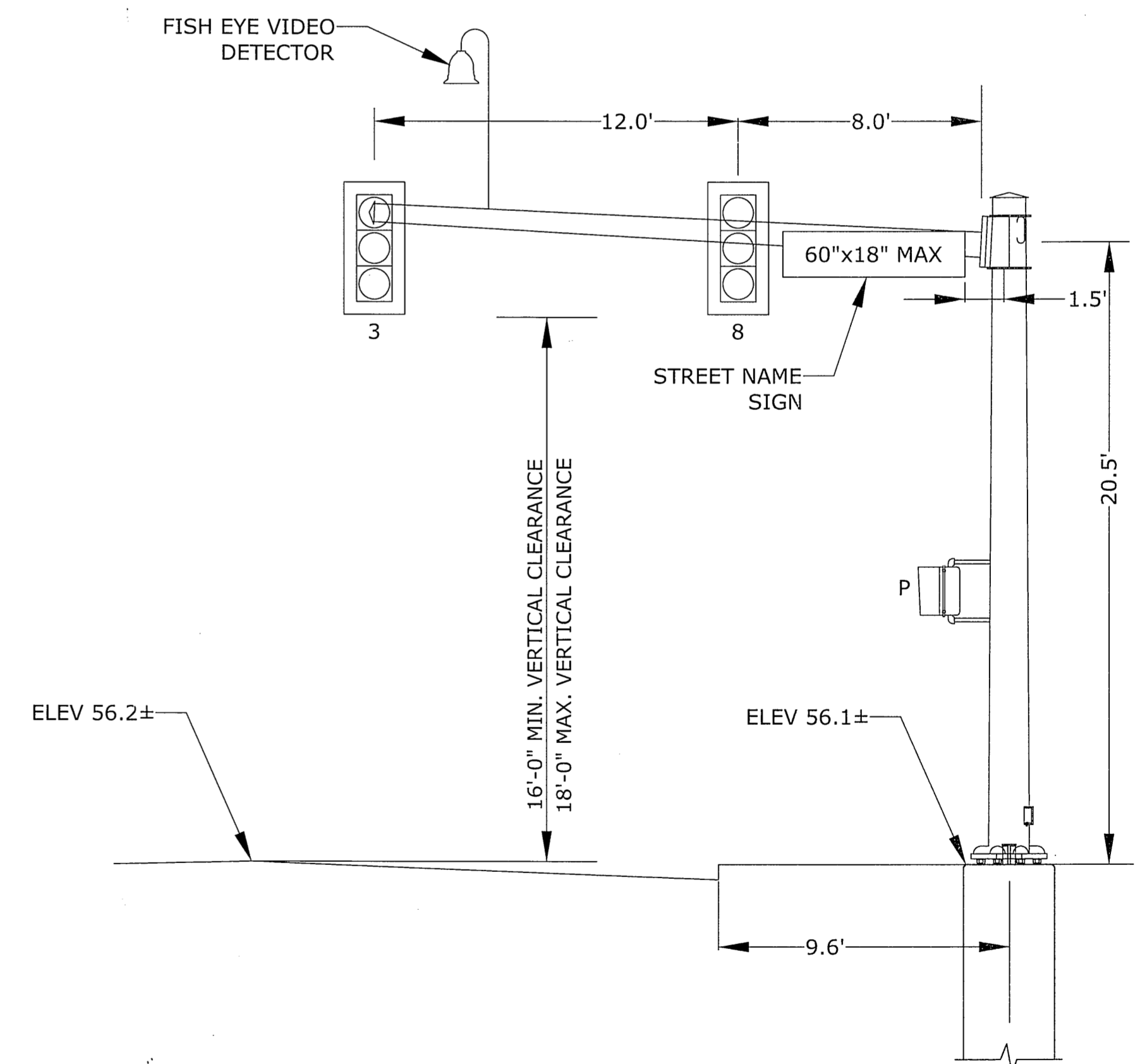
MAST ARM LOCATION "A"
STA. 27+46 LT



MAST ARM LOCATION "B"
STA. 28+22 LT



MAST ARM LOCATION "C"
STA. 28+65 RT



MAST ARM LOCATION "D"
STA. 27+76 RT

ALL MAST ARM TRAFFIC SIGNALS ARE FIXED MOUNTED TO THE MAST ARM BY USE OF ADJUSTABLE BRACKETS.

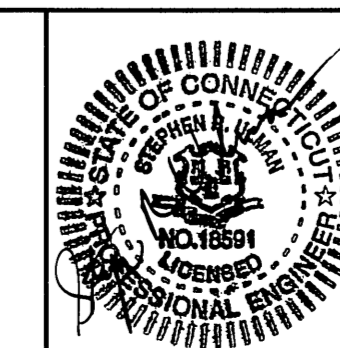
ALL SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE BORDER.

VIEW IS PERPENDICULAR TO ARM.

CONTRACTOR TO VERIFY MAST ARM INFORMATION INCLUDING CROSS-SECTIONS AND ELEVATIONS PRIOR TO SUBMITTING WORKING DRAWINGS.

DRAWING ISSUE STATUS		
1.	ISSUED FOR CONSTRUCTION	4/2/2015
NO.	DESCRIPTION	DATE

SCALE: AS SHOWN	DATE:
DRAWN BY: S.R.U.	1/6/2014
CHECKED BY: R.S.N.	----
APPROVED BY: S.R.U.	----
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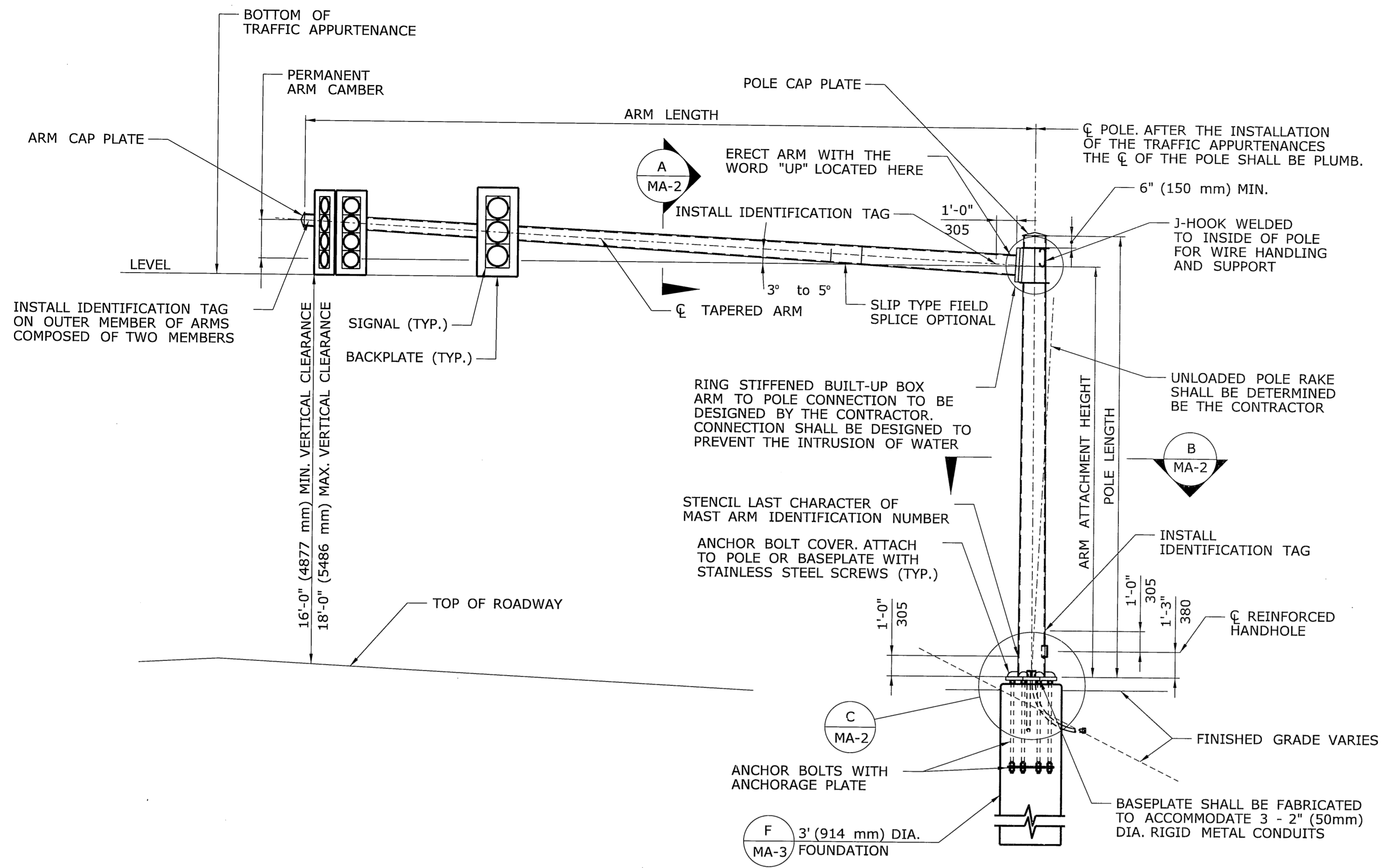


MAST ARM CROSS SECTIONS
INTERSECTION IMPROVEMENTS
FOR
GRISWOLD STREET
LOCATED AT
HARRIS & HOUSE STREETS
GLASTONBURY, CONNECTICUT

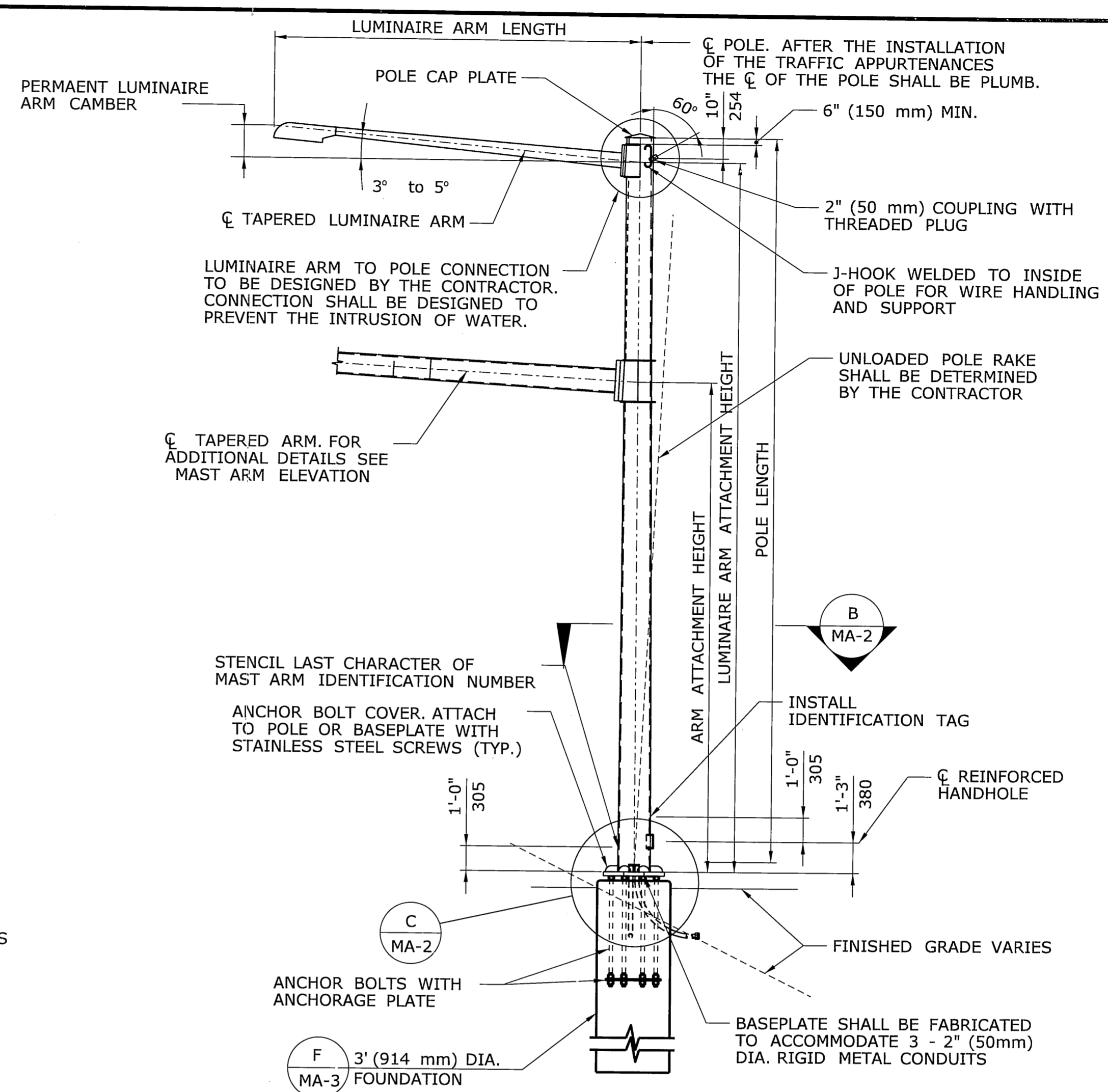
SHEET NO.

16

OF 35



**ELEVATION
MAST ARM**
SCALE: 1/4" = 1'-0"



**ELEVATION
COMBINATION MAST ARM**
SCALE: 1/4" = 1'-0"

MAST ARM ASSEMBLY NOTES

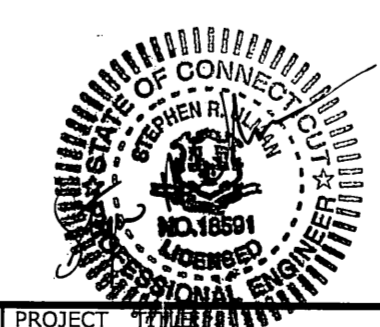
THE MAST ARM, INCLUDING THE ANCHORAGE TO THE FOUNDATION, SHALL BE DESIGNED, FABRICATED AND INSTALLED BY THE CONTRACTOR, OF THE SPAN SPECIFIED, IN ACCORDANCE WITH THE SPECIAL PROVISION "XX STEEL MAST ARM ASSEMBLY" OR "XX STEEL COMBINATION MAST ARM ASSEMBLY".

THE DIMENSIONS OF THE MAST ARM ASSEMBLY AND DETAILS OF THE TRAFFIC APPURTENANCES SUPPORTED BY THE MAST ARM ASSEMBLY ARE SHOWN ON THE TRAFFIC SIGNAL PLANS, ELEVATIONS, CROSS-SECTIONS OR IN THE SPECIAL PROVISIONS. THE ARM AND POLE LENGTHS AND THE ATTACHMENT HEIGHTS SHALL BE VERIFIED BY THE CONTRACTOR BASED ON THE FINISHED GRADE AT THE SITE, TOP OF FOUNDATION ELEVATION, THE LOCATIONS OF OVERHEAD UTILITY CABLES AND THE TRAFFIC APPURTENANCE MOUNTING HEIGHTS. IF EITHER THE ARM OR POLE LENGTH IS INADEQUATE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

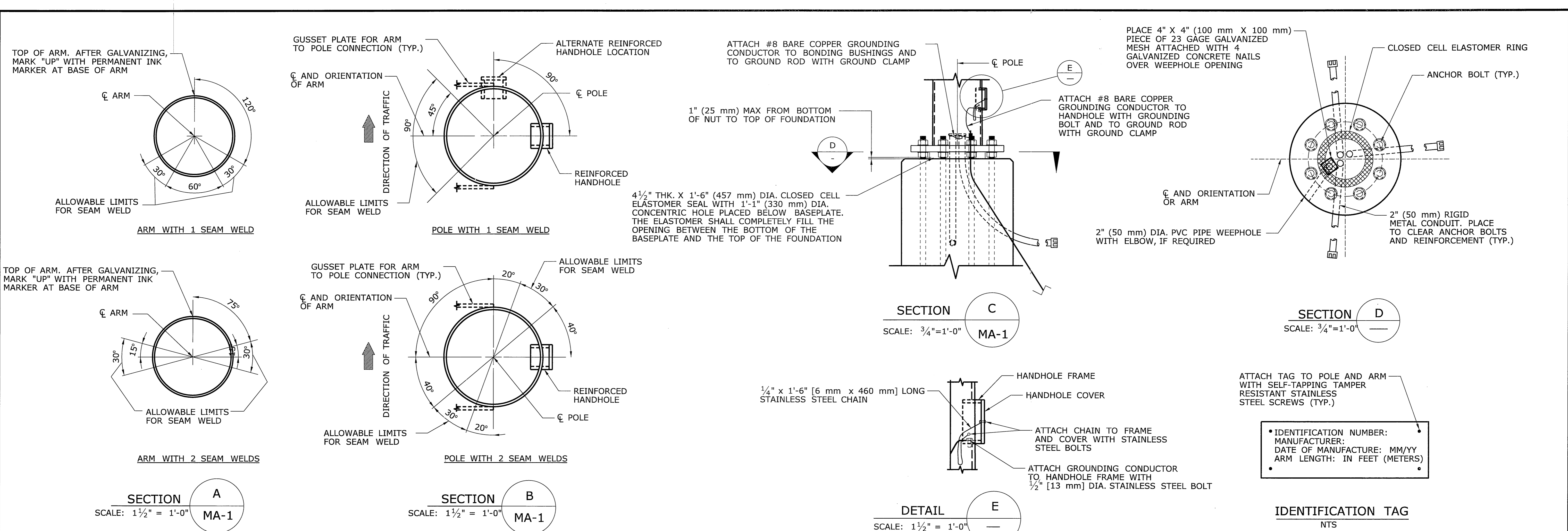
THE MAST ARMS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS, AS AMENDED BY THE AS SPECIAL PROVISION "XX STEEL MAST ARM ASSEMBLY" OR "XX STEEL COMBINATION MAST ARM ASSEMBLY".

THE MAST ARM SHALL BE DESIGNED FOR THE LOAD EFFECTS DUE TO THE ACTUAL TRAFFIC APPURTENANCES (SIGNALS, SIGNS, LUMINAIRES, CAMERAS, ETC.). THE MAST ARMS SHALL ALSO BE DESIGNED FOR THE EFFECTS OF TRAFFIC APPURTENANCES DURING ALL STAGES OF CONSTRUCTION THAT MAY EXIST DURING THE PROJECT UNDER WHICH THE MAST ARMS ARE INSTALLED.

THE MAST ARMS SHALL BE DESIGNED TO SUPPORT TRAFFIC APPURTENANCES WITH PROPERTIES NO LESS THAN THOSE SHOWN IN THE TABLE ENTITLED "TRAFFIC APPURTENANCE PROPERTIES - MINIMUM DESIGN VALUES".



THE INFORMATION INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: - CHECKED BY: -	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/BLOCK: _____ APPROVED BY: _____ DATE: _____	PROJECT: GRISWOLD STREET AT HARRIS AND HOUSE STREETS	TOWN: GLASTONBURY	PROJECT NO.: 53-187 DRAWING NO.: MA-1 SHEET NO.: 17
REV. DATE REVISION DESCRIPTION SHEET NO.	SCALE AS NOTED	FILENAME: ...XXXXXX.SB_MastArm.dgn		DRAWING TITLE: MAST ARM ASSEMBLY ELEVATION			



**TRAFFIC APPURTENANCE PROPERTIES
MINIMUM DESIGN VALUES**

	2'-0" 610	2'-0" 610	2'-0" 610	3'-2" 965	WIDTH HEIGHT
	3 SECTION, 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	4 SECTION, 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	5 SECTION, 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	5 SECTION, 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	SHEET ALUMINUM SIGN PANEL
WEIGHT, INCLUDING MOUNTING HARDWARE	65 LBS (29.48 kg)	80 LBS (36.29 kg)	95 LBS (43.09 kg)	105 LBS (47.63 kg)	4 LBS/SQ.FT. (19.53 kg/m ²)
TOTAL SURFACE AREA	28.04 SQ. FT. (2.61 m ²)	35.46 SQ. FT. (3.29 m ²)	45.16 SQ. FT. (4.20 m ²)	41.04 SQ. FT. (3.81 m ²)	BASED ON PANEL DIMENSIONS
PROJECTED AREA, FRONT FACE	8.62 SQ. FT. (0.80 m ²)	10.91 SQ. FT. (1.01 m ²)	13.34 SQ. FT. (1.24 m ²)	13.72 SQ. FT. (1.28 m ²)	BASED ON PANEL DIMENSIONS
PROJECTED AREA, BOTTOM FACE	1.18 SQ. FT. (0.11 m ²)	1.18 SQ. FT. (0.11 m ²)	1.18 SQ. FT. (0.11 m ²)	2.58 SQ. FT. (0.24 m ²)	BASED ON PANEL DIMENSIONS

NOTES:
 THE TABULATED VALUES ARE THE MINIMUM VALUES THAT SHALL BE USED FOR THE DESIGN.
 MAST ARMS SHALL BE DESIGNED ASSUMING ALL TRAFFIC SIGNALS ARE COMPOSED OF 12" (305 mm) DIAMETER SECTIONS WITH BACKPLATES.
 THE PROJECTED FRONT FACE AREA IS IN A PLANE PARALLEL TO THE PLANE FORMED BY THE ARM AND THE POLE.
 IF MULTIPLE APPURTENANCES ARE ATTACHED AT THE SAME LOCATION, THE MINIMUM DESIGN VALUE SHALL BE NO LESS THAN THE SUM OF THE CORRESPONDING TRAFFIC APPURTENANCE PROPERTIES.
 FOR TRAFFIC APPURTENANCES NOT SHOWN, THE PROPERTIES SHALL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW WITH THE WORKING DRAWING SUBMITTAL.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: - CHECKED BY: - SCALE AS NOTED	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: _____ APPROVED BY: _____ DATE: _____	 OFFICE OF ENGINEERING	PROJECT TITLE: GRISWOLD STREET AT HARRIS AND HOUSE STREETS	TOWN: GLASTONBURY	DRAWING TITLE: MAST ARM ASSEMBLY DETAILS
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 1/17/2014	Filename: ...XXXXXX-SB_MastArm.dgn				PROJECT NO. 53-187	DRAWING NO. MA-2	SHEET NO. 18

FOUNDATION NOTES

THE MAST ARM FOUNDATION IS DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, WITH THE LATEST INTERIM SPECIFICATIONS.

THE FOUNDATION EMBEDMENT IS DESIGNED FOR MAXIMUM LOAD EFFECTS, APPLIED AT THE TOP OF THE FOUNDATION, NO GREATER THAN THE FOLLOWING:

- AXIAL COMPRESSIVE FORCE: 8 K ①
- RESULTANT SHEAR FORCE: 8 K ①
- TORSION: 150 FT - K ①
- RESULTANT BENDING MOMENT: 115 FT - K ①

THE USE OF THE FOUNDATION IS NOT PERMITTED IF THE COMPUTED REACTIONS FROM THE CONTRACTOR DESIGNED MAST ARM ASSEMBLY EXCEED THE ABOVE LOAD EFFECTS.

THE ENGINEER SHALL BE NOTIFIED IF THE SLOPE OF THE FINISHED GRADE AT THE FOUNDATION EXCEEDS THE MAXIMUM PERMITTED SLOPE.

THE CONCRETE FOR THE FOUNDATION SHALL CONFORM TO "CLASS "A" CONCRETE".

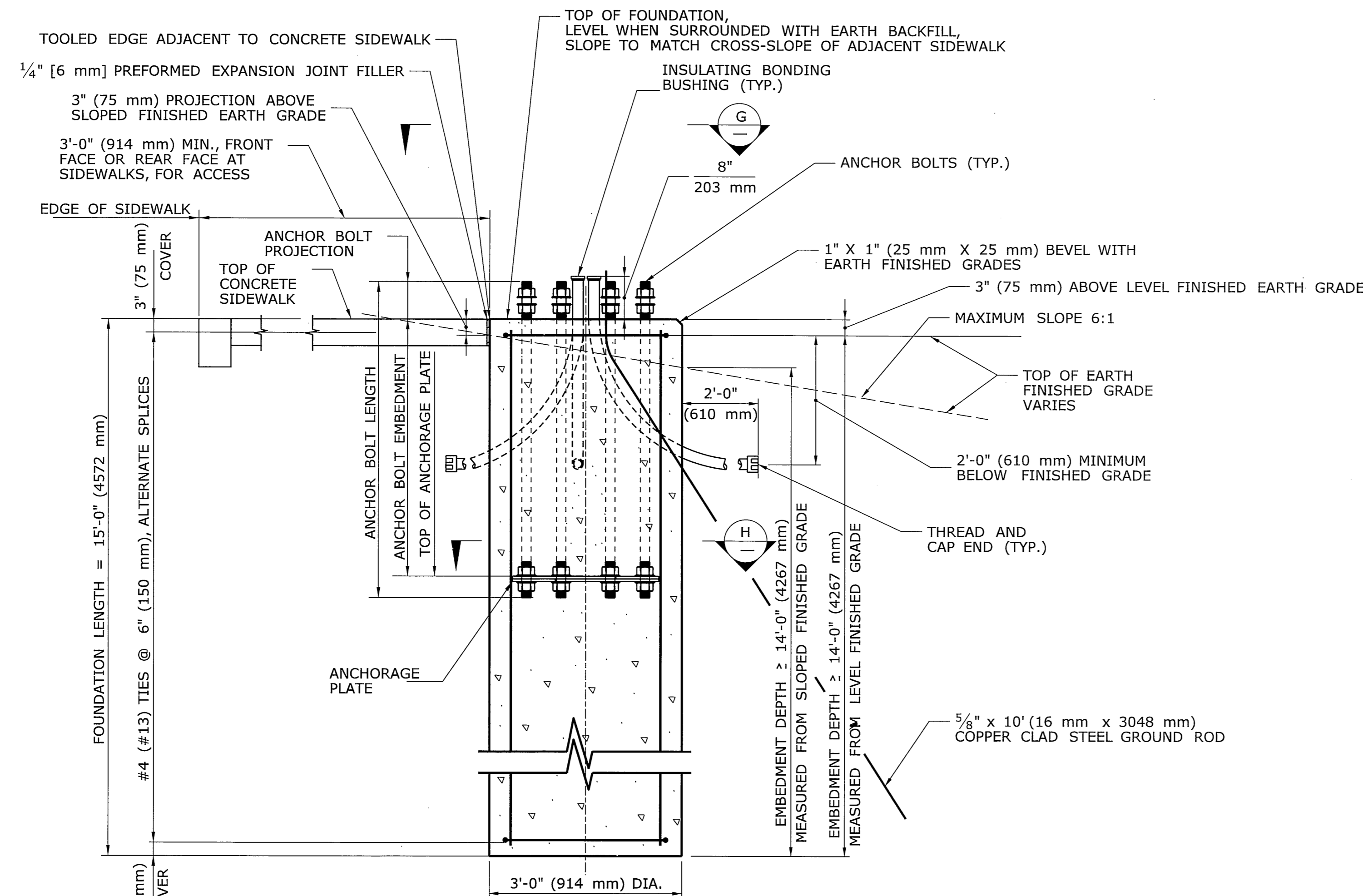
THE REINFORCEMENT SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60 (ASTM A615M, GRADE 420). THE REINFORCEMENT SHALL BE ASSEMBLED WITH WIRE TIES. WELDING TO ASSEMBLE REINFORCEMENT IS NOT PERMITTED. ALL REINFORCEMENT SHALL HAVE 3" (75 mm) COVER, UNLESS OTHERWISE NOTED.

THE CONCRETE SHALL BE PLACED IN A AUGERED HOLE AGAINST UNDISTURBED EARTH.

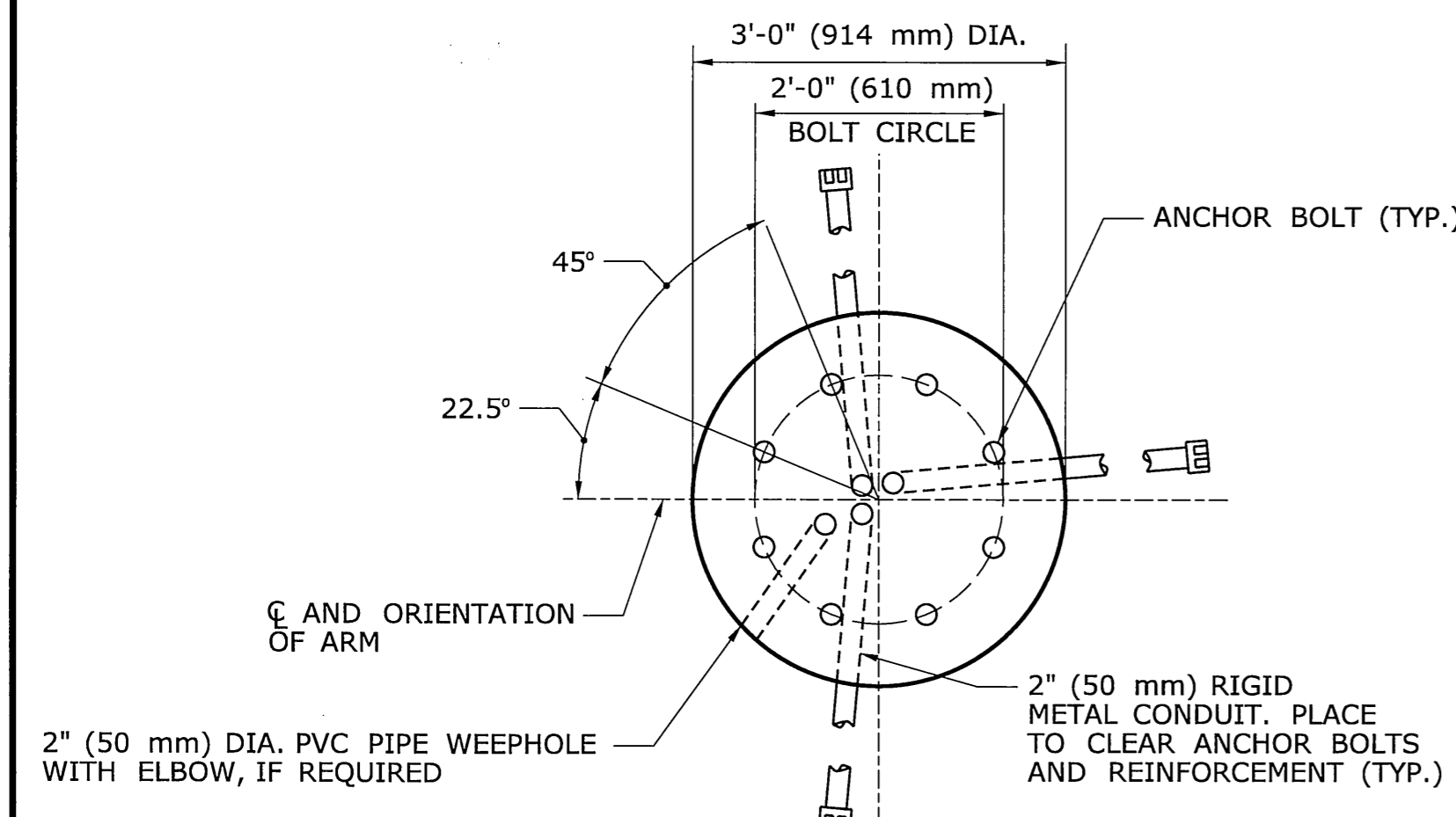
THE MAST ARM SHALL NOT BE ERECTED ON THE FOUNDATION UNTIL AFTER THE CONCRETE HAS ATTAINED A 28 DAY COMPRESSIVE STRENGTH, f_c , GREATER THAN OR EQUAL TO 3000 PSI (21 MPa).

THE COST OF THE FOUNDATION, INCLUDING THE EXCAVATION, CONCRETE AND REINFORCEMENT, SHALL BE PAID FOR UNDER THE ITEM "TRAFFIC CONTROL FOUNDATION - MAST ARM".

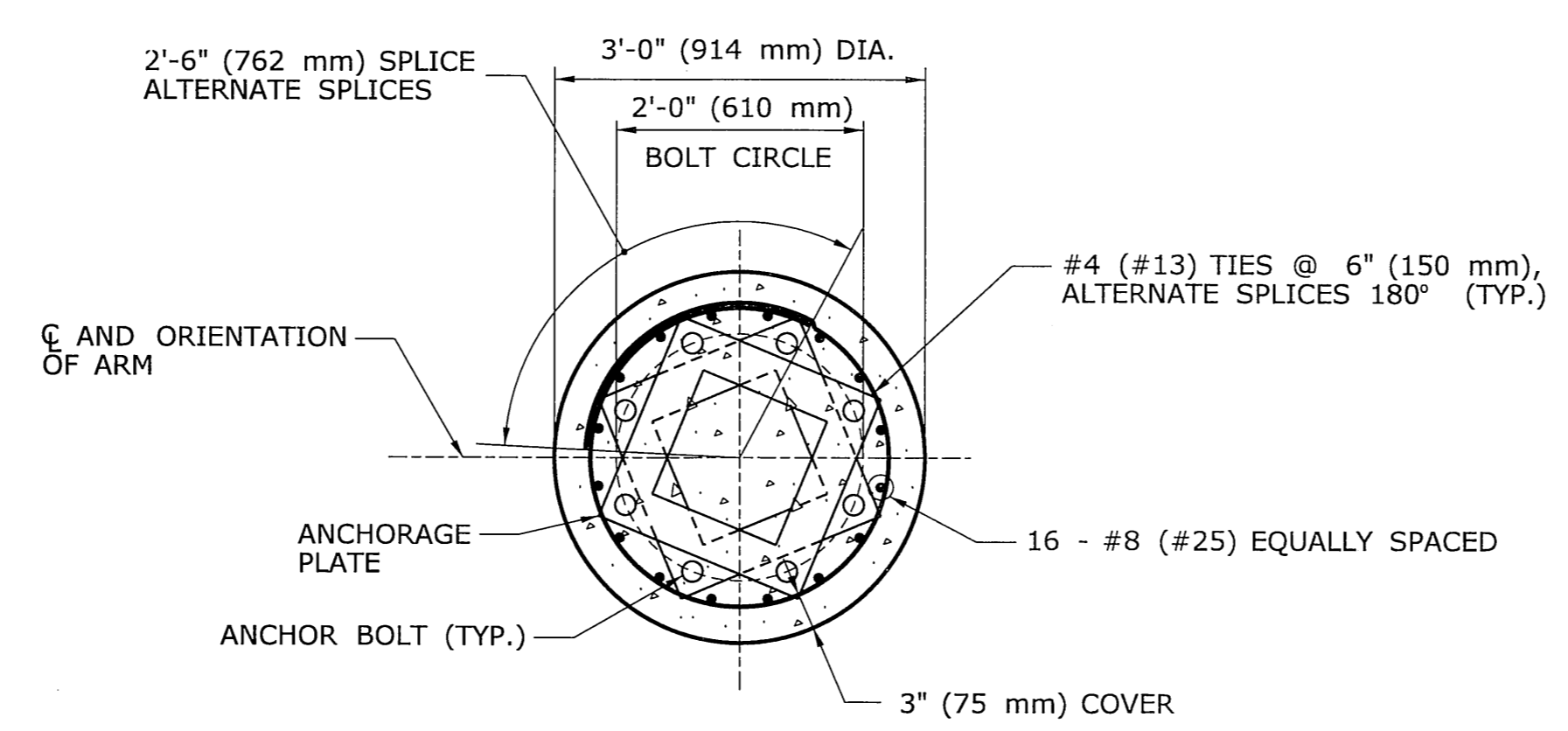
① THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE VALUES FOR THE LOAD EFFECTS APPLIED AT THE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL ENSURE THAT THE FOUNDATION IS ONLY USED FOR MAST ARM ASSEMBLIES WITH COMPUTED REACTIONS THAT DO NOT EXCEED THESE MAXIMUM LOAD EFFECTS.



SECTION F
SCALE: 3/4"=1'-0"
MA-1



SECTION G
SCALE: 3/4"=1'-0"



SECTION H
Scale: 3/4"=1'-0"

ATTENTION USER:

THE USER OF THESE FOUNDATION DETAILS IS RESPONSIBLE FOR DETERMINING THE VALUES FOR THE MAXIMUM LOAD EFFECTS APPLIED AT THE TOP OF THE FOUNDATION AND ADDING THE VALUES TO THE ABOVE NOTES. THE USER SHALL ENSURE THAT THE FOUNDATION IS ONLY USED FOR MAST ARM ASSEMBLIES WITH COMPUTED REACTIONS THAT DO NOT EXCEED THESE MAXIMUM LOAD EFFECTS. THIS NOTE SHALL BE REMOVED, BY THE USER, PRIOR TO INCORPORATING THESE FOUNDATION DETAILS INTO THE CONTRACT DOCUMENTS.



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SCALE AS NOTED	Plotted Date: 1/17/2014	APPROVED BY: DATE:	DRAWING TITLE: MAST ARM ASSEMBLY FOUNDATION DETAILS	DRAWING NO. MA-3	SHEET NO. 19
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