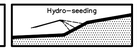
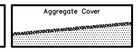
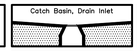
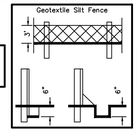
NORTHVILLE TOWNSHIP POLICE HEADQUARTERS SITE RENOVATIONS

AKT PEERLESS
214 JANES AVENUE
SAGINAW, MI 48607

SOIL EROSION & SEDIMENTATION CONTROL MEASURES

KEY	DETAIL	CHARACTERISTICS
7		Effective on large areas Mulch tacking agent used to provide immediate protection until grass is rooted Should include prepared topsoil bed
14		Stabilizes soil surface, thus minimizing erosion Permits construction traffic in adverse weather May be used as part of permanent base construction of paved areas
36		Collects high velocity concentrated runoff May use filter cloth over inlet
54		Controls and Contains sediment from sheet flow conditions. Fabric must be "toed" into the soil 6" or more to prevent underflow. Must be constructed of adequate strength filter fabric and stakes.

T – DENOTES TEMPORARY MEASURES
P – DENOTES PERMANANT MEASURES

Contractor shall conform to Soil Erosion and Sedimentation Control Act, Part 91 of Public Act 451 of 1994, as amended. All catch basins, on the site and adjacent to the site, shall be covered with cloth filters for Soil Erosion and Sedimentation Control.

EXISTING ITEMS LEGEND

- MANHOLE
- CATCHBASIN
- CURB CATCHBASIN
- FIRE HYDRANT
- GAS VALVE
- WATER VALVE
- POWER POLE
- TELEPHONE POLE
- POWER AND TELEPHONE POLE
- LIGHT POLE
- GUY ANCHOR AND POLE
- CABLE TV PEDESTAL
- TELEPHONE PEDESTAL
- ELECTRICAL PEDESTAL
- TRANSFORMER
- 600 – CONTOUR
- FENCE
- SPRINKLER
- RAILROAD SIGNAL
- ANTENNA
- SATELLITE DISH
- AC – AIR CONDITIONING UNIT
- SOIL BORING
- SURVEY CORNER
- STUMP
- WETLANDS
- PINE
- BUSH
- TREE
- MAIL BOX
- SIGN

PROPOSED ITEMS LEGEND

- MANHOLE
- CATCHBASIN
- FIRE HYDRANT
- WATER VALVE
- BARRIER FREE PARKING
- LIGHT POLES
- DRAINAGE FLOW
- 600.00 LABEL – SPOT ELEVATION LABELS
  - G = GUTTER
  - TW = WALK
  - TC = TOP OF CURB
  - FS = FINISH SURFACE
- WATER MAIN
- SANITARY SEWER
- STORM SEWER
- ELECTRICAL SERVICE
- TELEPHONE SERVICE
- GAS SERVICE
- RIDGE LINE
- STANDARD PAN CURB & GUTTER
- REVERSE PAN CURB & GUTTER
- GUTTER TRANSITION
- SIDEWALK RAMP
- 600 – CONTOUR

ABBREVIATIONS

BIT = BITUMINOUS
BM = BENCH MARK
BRW = BOTTOM RETAINING WALL
CB = CATCH BASIN
CF = CUBIC FEET
CL = CENTERLINE
CMP = CORRUGATED METAL PIPE
CSP = CORRUGATED STEEL PIPE
CONC = CONCRETE
DIP = DUCTILE IRON PIPE
ELEC = ELECTRIC
ELEV = ELEVATION
ESM'T = EASEMENT
EX OR EXIST = EXISTING
FF = FINISH FLOOR
FS = FINISH SURFACE
FG = FINISH GRADE
G = GUTTER
HYD = HYDRANT
INV = INVERT
MH = MANHOLE
MIN = MINIMUM
NFL = NOT FIELD LOCATED
NTS = NOT TO SCALE
PROP = PROPOSED
PVC = POLYVINYL CHLORIDE
RCP = REINFORCED CONCRETE PIPE
SAN = SANITARY
SB = SOIL BORING
STA = STATION
STM = STORM
SWR = SEWER
TC = TOP OF CURB
TELE = TELEPHONE
TRW = TOP OF RETAINING WALL
TW = TOP OF WALK
WM = WATER MAIN

FOR UTILITIES CONTACT

NORTHVILLE TOWNSHIP
Northville Township
44405 Six Mile Rd.
Northville, MI. 48168

ENGINEERING
Main: 248-348-5830
FAX: 248-348-5823

Director: Tom Casari, P.E.
tcasari@twp.northville.mi.us
Engineer: Jill Rickard, P.E.
jrickard@twp.northville.mi.us

WATER AND SEWER
Karl Gorham
Main: 248-348-5820
kgorham@twp.northville.mi.us

POLICE DEPARTMENT FACILITIES
Maintenance Supervisor: Greg Hester
Cell: 248-912-8645
ghester@twp.northville.mi.us
Maintenance Technician: Alex Hester
Cell: 248-962-8832
ahester@twp.northville.mi.us

ELECTRICAL AND NATURAL GAS
CONSUMERS POWER
530 W. Willow St
Lansing, MI. 48906
TEL (800)-477-5050
Contact: Kurt Golding
missdiggdesigntickets@cmsenergy.com

CABLE T.V. SERVICE
COMCAST
25626 Telegraph Rd.
Southfield, MI 48034
TEL (248) 809-97872749
Contact: Daryl Wood

TELEPHONE SERVICE
AT&T
54 N. Mill St.
Box 35
Pontiac, MI 48342
TEL (248) 456-9787
Contact: Eric James

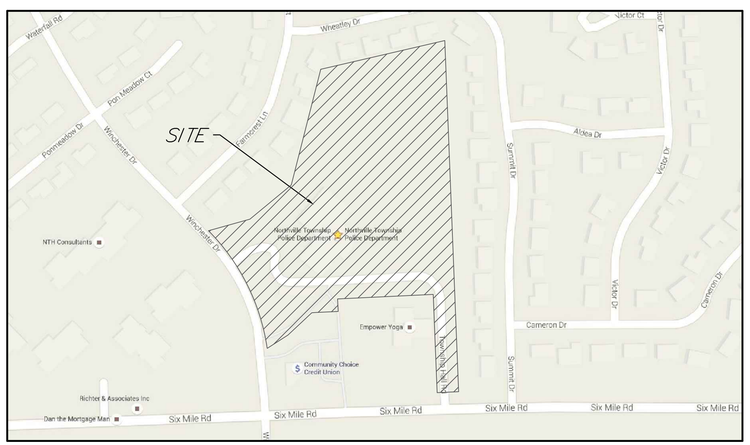
TDS METROCOM

TELEPHONE SERVICE
TDS METRO COM
1575 GEZON PKWY STE. B
WYOMING, MI. 49509
TEL (616) 301-3119
Contact: Brent Eurich
brent.eurich@tdsmetro.com

INTERNET COMMUNICATIONS
U.S. SIGNAL CORP
7020 Southbelt Dr. SE
Caldonia, MI. 49316
TEL (616) 295-0868
Contact: Keith VanderPloeg
missdig@tkms.net

AREA MAP
NOT TO SCALE

SECTION 11, T.1 S.–R.8 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN



LOCATION MAP
NOT TO SCALE

SITE WORK

Contractor shall call "Miss Dig" 811 a minimum of 3 working days prior to any construction for the locations of existing underground utilities. The existing utilities on these drawings have been shown according to the best available information. The Contractor shall field locate all utilities and notify the engineer where possible conflict exists prior to beginning construction.

Electric service to carports shall be underground. All utility company service lines and pad locations are shown for reference only. Exact locations to be coordinated with utility company.

Prior to commencing construction, the Contractor is responsible for obtaining all permits required by the appropriate municipalities. Construction procedures shall conform to the requirements of the appropriate municipalities. All drives and approaches shall be constructed according to requirements of the appropriate governing authority.

All trenched construction under gravel, paved surfaces or utilities shall be backfilled with class II sand or other approved granular material in 12" layers and compacted to 95% of its maximum unit weight.

Unpaved areas shall be smoothly graded and the surface stabilized by seeding or otherwise. The maximum desirable slope is 3 horizontal to 1 vertical unless noted otherwise.

Contractor shall sawcut pavement and curb & gutter for a clean edge to install proposed pavement and curb & gutter.

Contractor is responsible to maintain positive drainage pattern to ensure no ponding of water on adjacent existing and proposed paved surfaces.

Dimensions shown are given to the back of curbs and face of buildings unless noted otherwise.

Contractor shall maintain access AND temporary signage to the police facilities at all times for the duration of the construction project.

STORM SEWER

Pipe materials shall be as follows:.
• less than 12" diameter – PVC SDR-35 pipe, and perforated PVC SDR-35. See Specifications.

PLAN INDEX

FILE NO.	DESCRIPTION	NO.
D-5236-1	TITLE SHEET	T1
D-5236-2	EXISTING CONDITIONS	S1
D-5236-3	DEMOLITION PLAN	C1
D-5236-4	OVERALL SITE PLAN	C2
D-5236-5	OVERALL GRADING & EROSION CONTROL PLAN	C3
D-5236-6	ENLARGED SITE & GRADING PLAN	C4
D-5236-7	PAVEMENT PLAN & SECTIONS	C5
D-5236-8	LIGHTING PLAN	C6
D-5236-9	PHOTOMETRIC PLAN	C7
D-5236-10	CARPORT PLANS	C8
D-5236-11	SITE DETAILS	C9
D-5236-12	GARAGE DETAILS	C10

BY	MARK	REVISIONS	DATE
AJS		ISSUED FOR BIDDING	07-25-2016

THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

AKT PEERLESS
214 JANES AVENUE
SAGINAW, MI 48607

TITLE SHEET
POLICE HEADQUARTERS
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

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230 S. Washington Ave.
Saginaw, MI 48607
Tel. 989-754-4717
Fax. 989-754-4440
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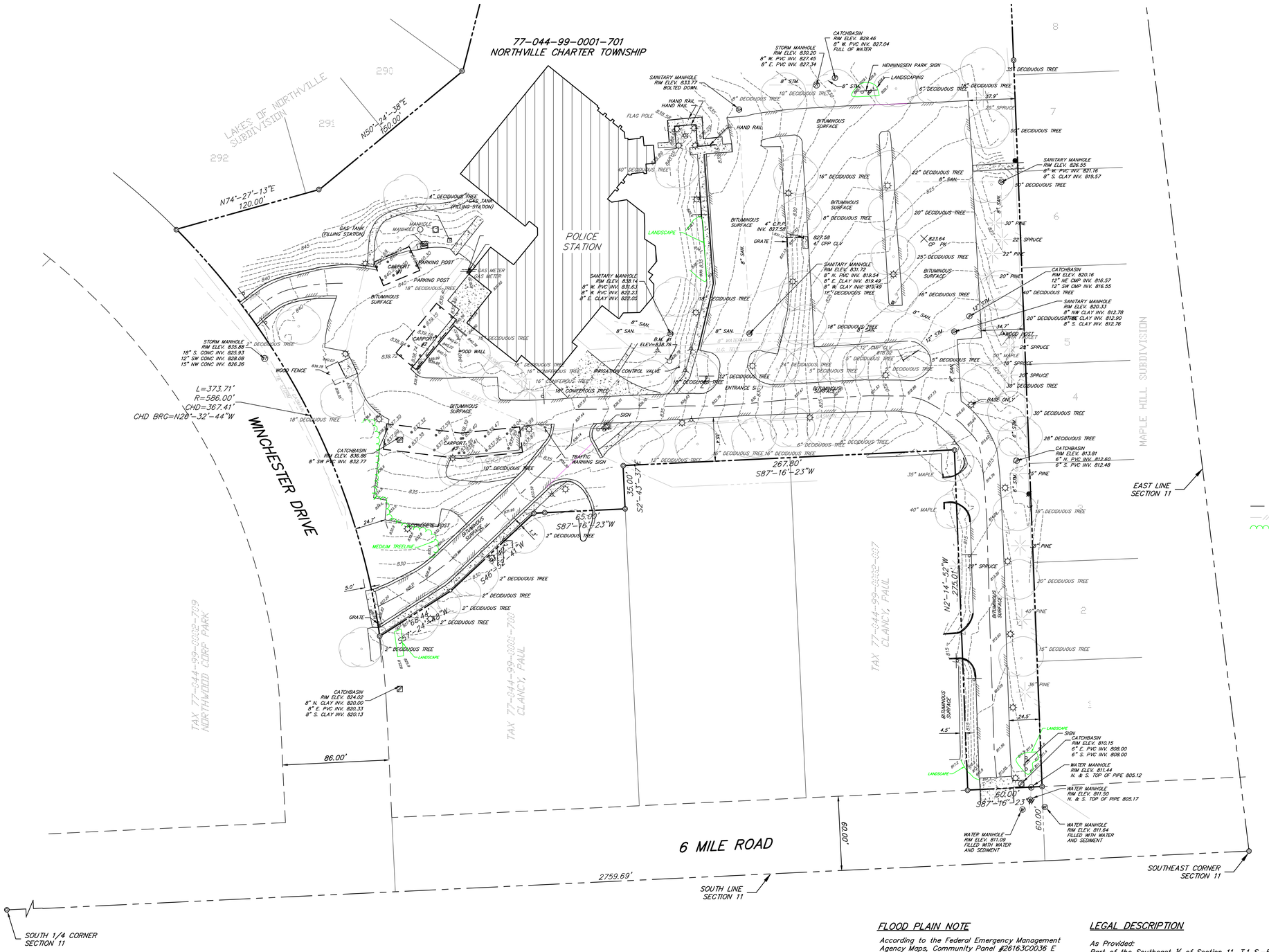
DR. BY: AJS APP. BY: DWH
PROJECT NO. 123584SG2016
STDS.
SHEET 1 OF 12
DATE JULY, 2016
SCALE N/A
FILE NO. D-5236-1
T 1

SECTION 11
T.01 S. – R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

N

SCALE: 1" = 40'
Contour Interval = 1 foot



LEGEND

- MANHOLE
- CATCHBASIN
- CURB CATCHBASIN
- FIRE HYDRANT
- WATER VALVE
- GAS VALVE
- TELEPHONE POLE
- POWER POLE
- POWER AND TELEPHONE POLE
- LIGHT POLE
- MAIL BOX
- SIGN
- FENCE
- SPRINKLER
- RAILROAD SIGNAL
- TRANSFORMER
- BARRIER FREE PARKING
- BITUMINOUS SURFACE
- CONCRETE SURFACE
- CONCRETE CURB
- FENCE LINE
- OVERHEAD POWER LINES
- TREE LINE
- STUMP
- PINE
- BUSH
- TREE
- TELEPHONE PEDESTAL
- FOUND SURVEY CORNER
- SET 3/4" IRON PIPE
- SET P.K. NAIL
- GUY ANCHOR AND POLE
- N.F.L. – NOT FIELD LOCATED
- CABLE TV PEDESTAL
- ANTENNA
- SATELLITE DISH
- AC – AIR CONDITIONING UNIT
- SOIL BORING
- ELECTRICAL PEDESTAL
- BURIED CABLE LINES
- BURIED ELECTRIC LINES
- GASMAINS
- SANITARY SEWER LINES
- STORM SEWER LINES
- TELEPHONE LINES
- WATERMAINS

UTILITY NOTE

The utility locations as hereon shown are based on field observations and a careful review of municipal and utility company records. However, it is not possible to determine the precise location and depth of underground utilities without excavation. Therefore, we cannot guarantee the accuracy or completeness of the buried utility information hereon shown. The contractor shall call "MISS DIG" (1-800-482-7171) within three working days prior to any excavation. The contractor is responsible for verifying these utility locations prior to construction and shall make every effort to protect and or relocate them as required. The contractor shall notify the Engineer/Surveyor as soon as possible in the event a discrepancy is found.

BENCH MARK

B.M. #1
CHISELED "+" ON TOP OF EAST FLANGE BOLT UNDER "J" IN EJIW ON FIRE HYDRANT SOUTHEAST CORNER OF POLICE STATION BUILDING

ELEV=838.76 NAVD88

FLOOD PLAIN NOTE

According to the Federal Emergency Management Agency Maps, Community Panel #26163C0036 E the subject property lies within Zone X, areas determined to be outside the 500 year flood plain.

LEGAL DESCRIPTION

As Provided:
Part of the Southeast ¼ of Section 11, T.1 S.-R.8 E., Northville Charter Township, Wayne County, Michigan, being more particularly described as follows: Beginning at a point which is N.89°-55'-30"E., 2759.69 feet (measured as 2760.10 feet) along the South line of Section 11 and N.00°-24'-15"E., 60.00 feet from the South ¼ Corner of Section 11, T.1 S.-R.8 E.; thence S.89°-55'-30"W., 60.00 feet; thence N.00°-24'-15"E., 275.01 feet; thence S.89°-55'-30"W., 267.80 feet; thence S.00°-04'-30"E., 35.00 feet; thence S.89°-55'-30"W., 65.00 feet; thence Westerly 8.78 feet along a curve concave to the South (Radius of 1026.96 feet, Central Angle of 00°-29'-23"; Long chord bears S.89°-40'-48"W., 8.78); thence S.49°-31'-48"W., 91.42 feet; thence S.60°-03'-55"W., 68.44 feet; thence Northerly 373.71 feet along a curve concave to the West (Radius of 586.00 feet, Central Angle of 36°-32'-23"; Long chord bears N.23°-53'-37"W., 367.41 feet); thence N.77°-06'-20"E., 120.00 feet; thence N.53°-03'-45"E., 150.00 feet; thence N.16°-55'-23"E., 333.78 feet; thence N.79°-35'-45"E., 356.10 feet; thence S.00°-24'-15"W., 982.46 feet to the point of beginning.

BY	MARK	REVISIONS	DATE

THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

NORTHVILLE TOWNSHIP POLICE H.Q.
NORTHVILLE TOWNSHIP, WAYNE COUNTY, MI

BOUNDARY, TOPOGRAPHY AND UTILITY SURVEY

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DE. BY: MU/MJE	CH. BY: DMW	PROJECT NO.	123584SG2016
DR. BY: MU/MJE	APP. BY: JEW		
STDS.		SHEET 2 OF 12	S 1
DATE 06-08-16		FILE NO.	
SCALE 1" = 40'		D-5236-2	

N

SCALE: 1" = 30'

SECTION 11
T.01 S. – R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

DEMOLITION NOTES

1. PROTECT TREES, PLANT GROWTH, AND FEATURES DESIGNATED TO REMAIN, AS FINAL LANDSCAPING.
2. CLEAR AREAS REQUIRED FOR ACCESS TO SITE AND EXECUTION OF WORK.
3. REMOVE NOTED PAVING. SAWCUT ALL PAVING TO BE REMOVED FOR A CLEAN EDGE TO INSTALL NEW PAVING.
4. REMOVE TREES AND SHRUBS WITHIN LIMITS OF CONSTRUCTION AS NOTED. REMOVE STUMPS, MAIN ROOT BALL, ROOT SYSTEM TO A DEPTH OF 12 INCHES.
5. REMOVE ALL CLEARED ITEMS FROM SITE AND PROPERLY DISPOSE OF.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING & MULCHING ALL DISTURBED AREAS.
7. CONTRACTOR SHALL COORDINATE THE REMOVAL OF TREES WITH OWNER PRIOR TO REMOVAL.
8. CONTRACTOR SHALL PROTECT EXISTING CURBING, CARPORTS, LIGHT POLE BASES, AND SPRINKLER HEADS TO REMAIN.
9. CONTRACTOR SHALL DISPOSE OF EXISTING WHEEL STOPS.
10. ASPHALT PAVEMENT & BASE MATERIAL SHALL BE REMOVED A MINIMUM OF 12" TO ALLOW FOR FULL PAVEMENT SECTION REPLACEMENT, SEE SECTION DETAIL AND PAVEMENT PLAN.
11. ASPHALT PAVEMENT & BASE MATERIAL SHALL BE REMOVED A MINIMUM OF 14" TO ALLOW FOR FULL CONCRETE SECTION REPLACEMENT IN THE CARPORT AREAS SEE SECTION DETAIL AND PAVEMENT PLAN.

LEGEND

- LIGHT POLE + FIXTURE REMOVAL (25 TOTAL)
- ASPHALT PAVEMENT PULVERIZING (APPROX. 85,255 S.F.)
- ASPHALT PAVEMENT REMOVAL SEE NOTES 10 & 11.
- CONCRETE PAVEMENT & SIDEWALK REMOVAL

BY	MARK	REVISIONS	DATE
AJS		ISSUED FOR BIDDING	07-25-2016

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DEMOLITION PLAN
POLICE HEADQUARTERS
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

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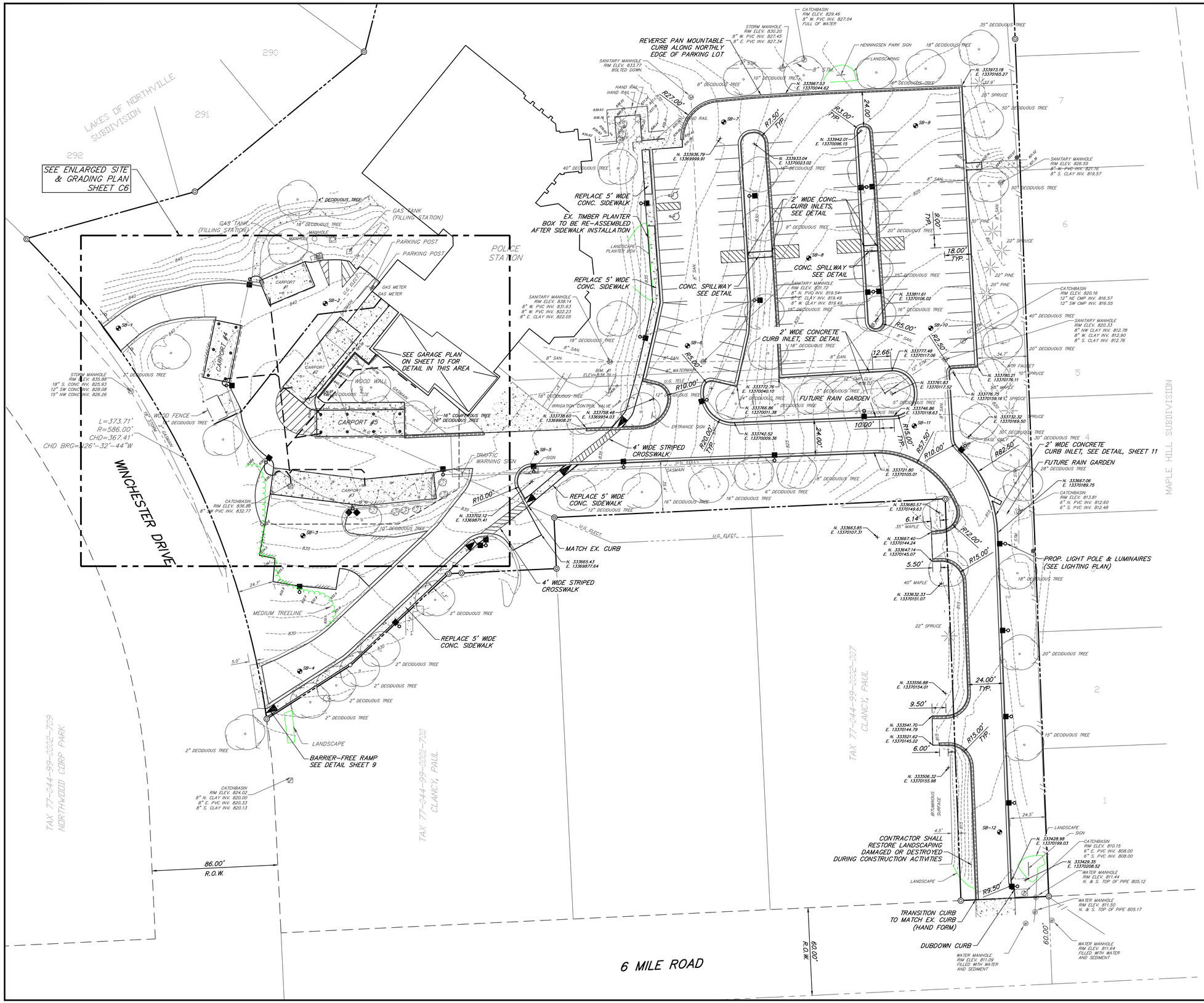
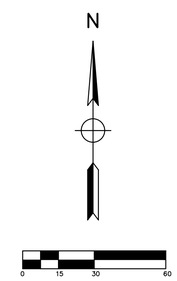
DR. BY: AJS	APP. BY: DWH	
STDS.	SHEET 3 OF 11	C
DATE JULY, 2016	FILE NO. D-5236-3	1
SCALE 1" = 30'		





SECTION 11
T.01 S. – R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

NOTES

1. CURB AND GUTTER TO BE STANDARD UNLESS INDICATED ON PLANS.

BY	MARK	REVISIONS	DATE
AJS		ISSUED FOR BIDDING	07-25-2016

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OVERALL SITE PLAN
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WAYNE COUNTY, MICHIGAN

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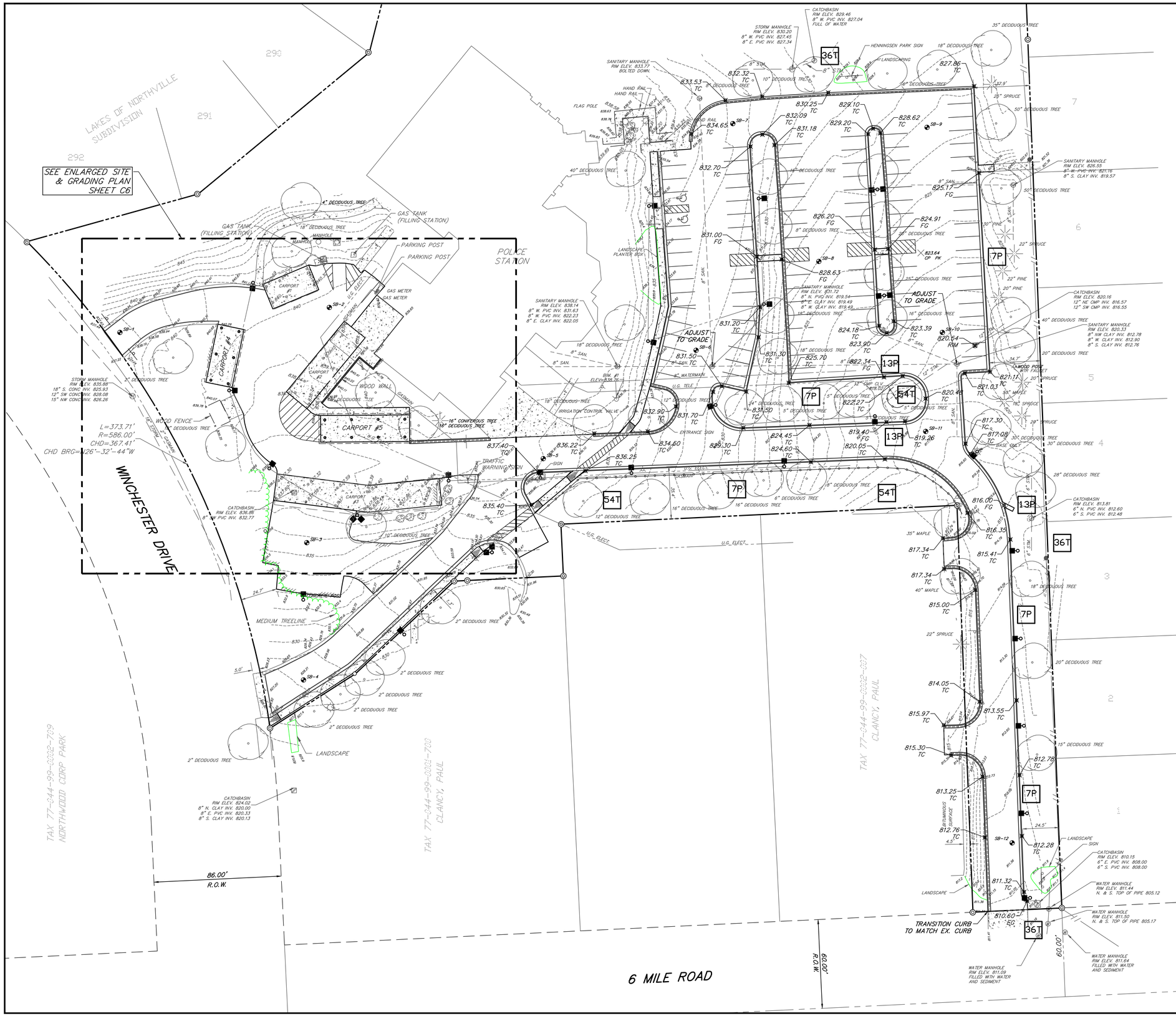
DR. BY: AJS APP. BY: DWH
PROJECT NO. 123584SG2016
STDS.
SHEET 4 OF 12
C 2
DATE JULY, 2016
SCALE 1" = 30'
FILE NO. D-5236-4



N

SCALE: 1" = 30'

SECTION 11
T.01 S. – R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

BENCH MARK

B.M. #1
CHISELED "+" ON TOP OF EAST FLANGE BOLT UNDER "J" IN EJIW ON FIRE HYDRANT SOUTHEAST CORNER OF POLICE STATION BUILDING

ELEV=838.76 NAVD88

BY	MARK	REVISIONS	DATE
AJS		ISSUED FOR BIDDING	07-25-2016

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OVERALL GRADING PLAN
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WAYNE COUNTY, MICHIGAN

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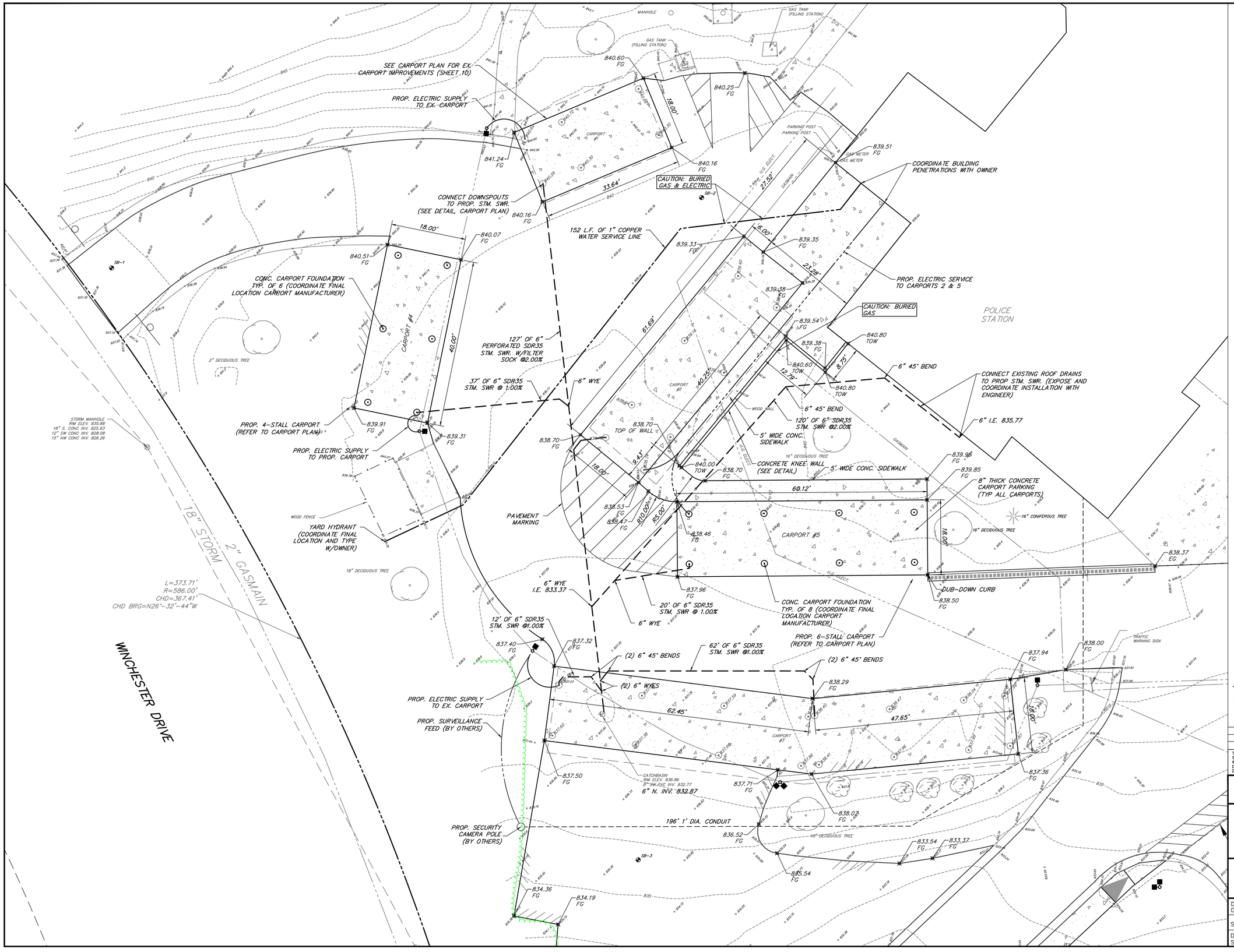
DR. BY: AJS	APP. BY: DWH	123584SG2016
STDS.	SHEET 5 OF 12	C
DATE JULY, 2016	FILE NO.	3
SCALE 1" = 30'	D-5236-5	



N

SCALE: 1" = 10'

SECTION 11
T.01 S. – R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

BENCH MARK

B.M. #1
CHISELED "+" ON TOP OF EAST FLANGE BOLT UNDER "J" IN EJIW ON FIRE HYDRANT SOUTHEAST CORNER OF POLICE STATION BUILDING

ELEV=838.76 NAVD88

BY	MARK	REVISIONS	DATE
AJS		ISSUED FOR BIDDING	07-25-2016

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ENLARGED SITE & GRADING
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WAYNE COUNTY, MICHIGAN

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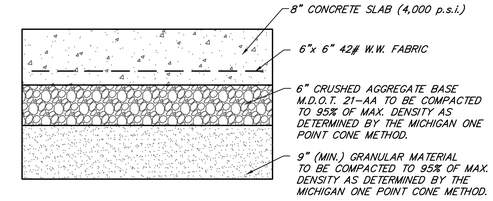
DR. BY: AJS APP. BY: DWH
PROJECT NO. 123584SG2016

STDS.
SHEET 6 OF 12
C 4

DATE JULY, 2016
SCALE 1" = 10'
FILE NO. D-5236-6

	PULVERIZING DEPTH	REMOVAL OF PULVERIZED BASE	PAVEMENT REMOVAL
AREA A	0"	5" +/-	4" +/-
AREA B	12" MIN.	5" +/-	0"
AREA C	8" MIN.	0"	0"

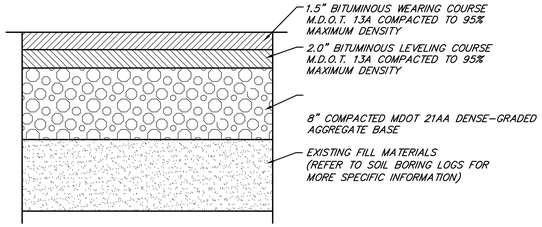
SEE NOTES 3 & 4 FOR TRANSITION AREAS



CONCRETE PAVEMENT CROSS-SECTION

NOT TO SCALE

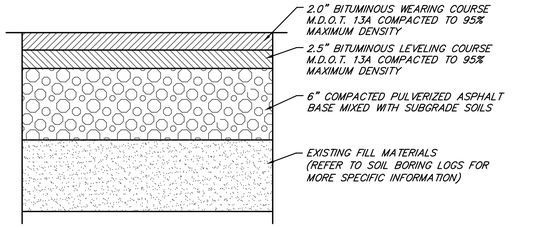
(FOR USE IN CARPORTS)



STANDARD PAVEMENT SECTION

NOT TO SCALE

(FOR USE IN AREA A)



PULVERIZED PAVEMENT SECTION

NOT TO SCALE

(FOR USE IN AREAS B & C)

NOTES

1. REFER TO PAVEMENT CONSIDERATIONS PER GEOTRAN CONSULTANTS, INC. SOILS REPORT PN #16-0503G-10 (6/23/16)
2. CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT (FROM OWNER) PREPARED BY GEOTRAN, INC., ALL EARTHWORK UNDERCUTTING AND SUBGRADE PREPARATION SHALL BE CONSTRUCTED ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT.
3. CONTRACTOR SHALL PULVERIZE A MIN 12" & REMOVE PULVERIZED ASPHALT BASE TO 4.5" BELOW EXISTING GRADE AT CONCRETE APPROACH AND TRANSITION TO A PULVERIZED ASPHALT BASE REMOVAL DEPTH OF 0.0" AT A POINT 50' TO THE NORTH.
4. CONTRACTOR SHALL TRANSITION FROM APPROX 5.0" PULVERIZED ASPHALT BASE REMOVAL TO 0.0" PULVERIZED ASPHALT BASE REMOVAL AT A POINT 50' TO THE EAST.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITY DEPTHS AS WELL AS ANY IRRIGATION LINES PRIOR TO PULVERIZING AS TO AVOID DAMAGE OR DESTRUCTION DURING PULVERIZING OPERATIONS.

N

0 15 30 60

SCALE: 1" = 30'

SECTION 11
T.01 S. - R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

BY	MARK	REVISIONS	DATE
	AJS	ISSUED FOR BIDDING	07-25-2016

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PAVEMENT PLAN & SECTIONS
POLICE HEADQUARTERS
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

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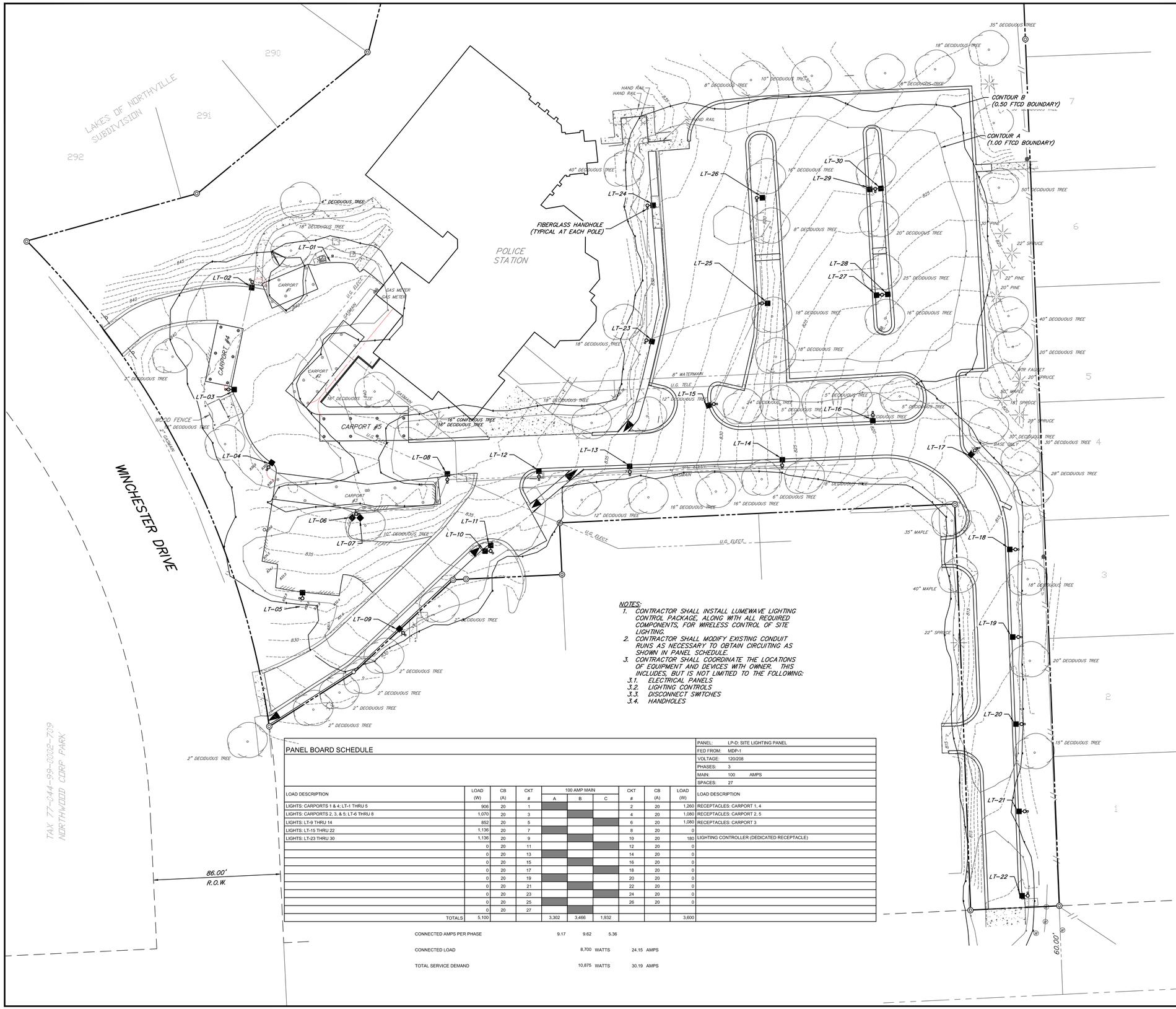
DE. BY: AJS CH. BY: MDN/ASW
DR. BY: AJS APP. BY: DWH
PROJECT NO. 123584SG2016

STDS.
SHEET 7 OF 12
C 5

DATE JULY, 2016
SCALE 1" = 30'
FILE NO. D-5236-7



LIGHTING CONTOURS:
A : 1.00 FTCD
B : 0.50 FTCD

KEY:

LT	LIGHT (POLE)
REC	RECEPTACLE
HH	HANDHOLE
FTCD	FOOTCANDLE

N

0 15 30 60
SCALE: 1" = 30'

SECTION 11
T.01 S. – R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

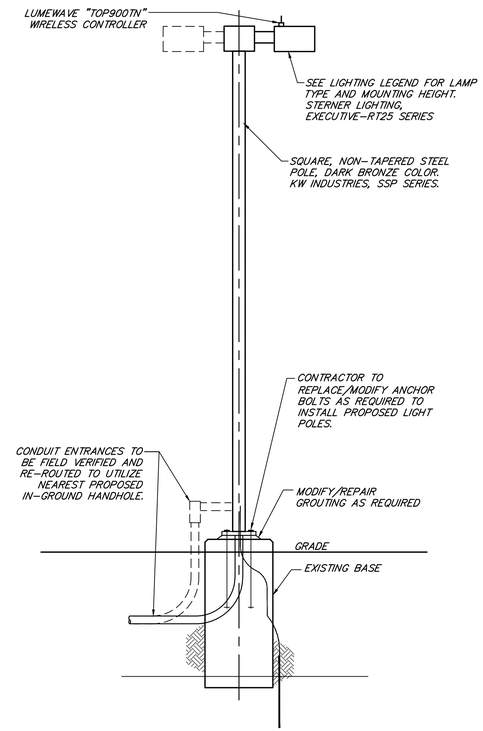
NOTES:
1. CONTRACTOR SHALL INSTALL LUMEWAVE LIGHTING CONTROL PACKAGE, ALONG WITH ALL REQUIRED COMPONENTS, FOR WIRELESS CONTROL OF SITE LIGHTING.
2. CONTRACTOR SHALL MODIFY EXISTING CONDUIT RUNS AS NECESSARY TO OBTAIN CIRCUITING AS SHOWN IN PANEL SCHEDULE.
3. CONTRACTOR SHALL COORDINATE THE LOCATIONS OF EQUIPMENT AND DEVICES WITH OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
   3.1. ELECTRICAL PANELS
   3.2. LIGHTING CONTROLS
   3.3. DISCONNECT SWITCHES
   3.4. HANDHOLES

PANEL BOARD SCHEDULE

PANEL:	LP-D: SITE LIGHTING PANEL
FED FROM:	MDP-1
VOLTAGE:	120/208
PHASES:	3
MAIN:	100 AMPS
SPACES:	27

LOAD DESCRIPTION	LOAD (W)	CB (A)	CKT #	100 AMP MAIN A	B	C	CKT #	CB (A)	LOAD (W)	LOAD DESCRIPTION
LIGHTS: CARPORTS 1 & 4; LT-1 THRU 5	906	20	1				2	20	1,260	RECEPTACLES: CARPORT 1, 4
LIGHTS: CARPORTS 2, 3, & 5; LT-6 THRU 8	1,070	20	3				4	20	1,080	RECEPTACLES: CARPORT 2, 5
LIGHTS: LT-9 THRU 14	652	20	5				6	20	1,080	RECEPTACLES: CARPORT 3
LIGHTS: LT-15 THRU 22	1,136	20	7				8	20	0	
LIGHTS: LT-23 THRU 30	1,136	20	9				10	20	180	LIGHTING CONTROLLER (DEDICATED RECEPTACLE)
	0	20	11				12	20	0	
	0	20	13				14	20	0	
	0	20	15				16	20	0	
	0	20	17				18	20	0	
	0	20	19				20	20	0	
	0	20	21				22	20	0	
	0	20	23				24	20	0	
	0	20	25				26	20	0	
	0	20	27							
TOTALS	5,100			3,302	3,466	1,932			3,600	

	A	B	C		
CONNECTED AMPS PER PHASE	9.17	9.62	5.36		
CONNECTED LOAD		8,700	WATTS	24.15	AMPS
TOTAL SERVICE DEMAND		10,875	WATTS	30.19	AMPS



TYPICAL LIGHT POLE IN GRASS AREA DETAIL
NOT TO SCALE

BY	MARK	REVISIONS	DATE
AJS		ISSUED FOR BIDDING	07-25-2016

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LIGHTING PLAN
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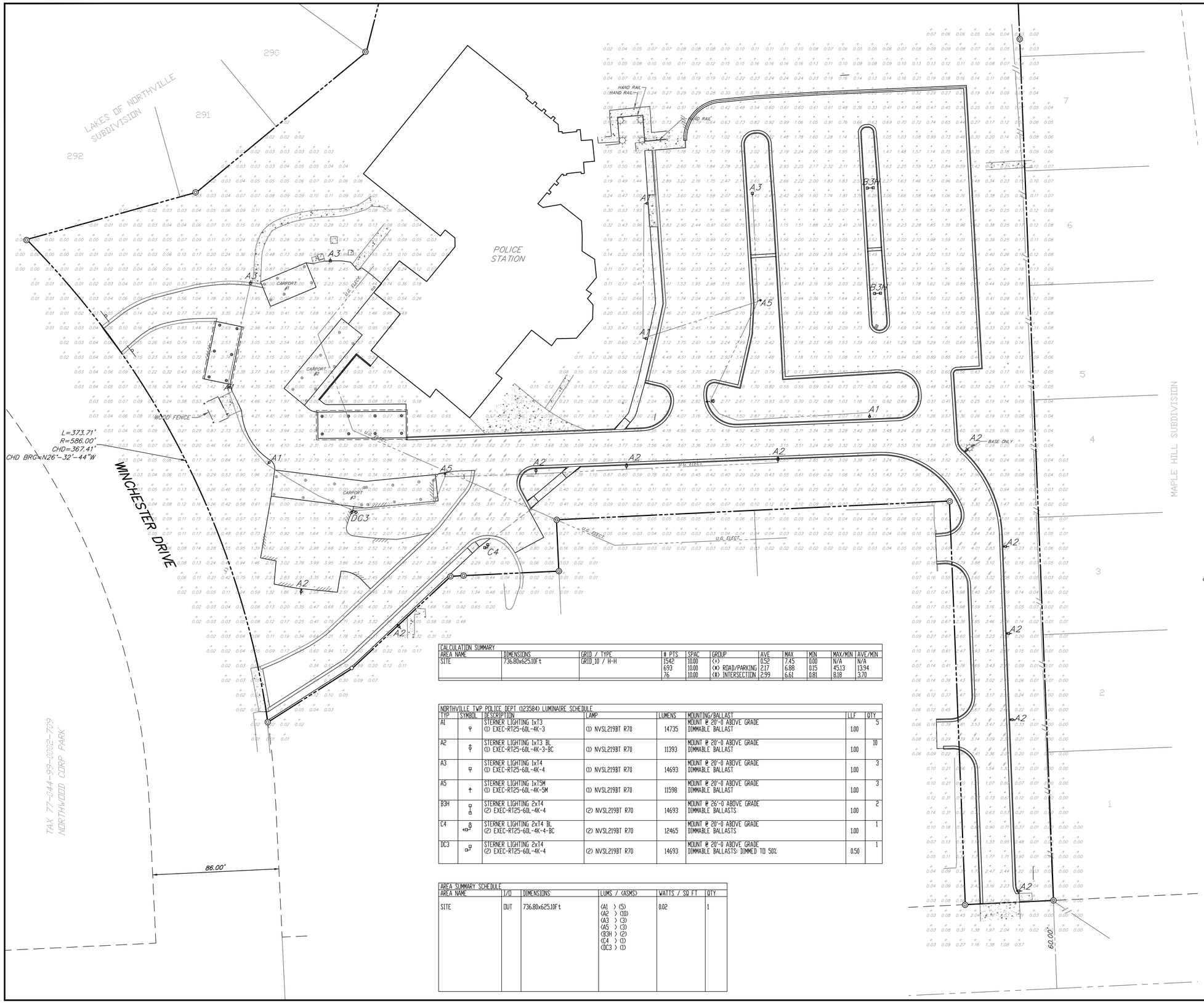
DR. BY: DRL/AJS APP. BY: DWH
PROJECT NO. 123584SG2016
STDS.
DATE JULY, 2016
SCALE 1" = 30'
SHEET 8 OF 12
FILE NO. D-5236-8
C 6



N

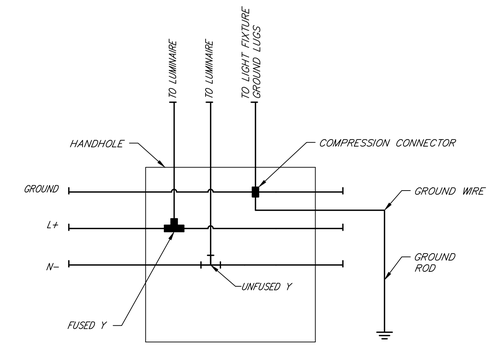
SCALE: 1" = 30'

SECTION 11
T.01 S. – R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

CALCULATION SUMMARY										
AREA NAME	DIMENSIONS	GRID / TYPE	# PTS	SPAC	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
SITE	736.80x625.10Ft	GRID_10 / H-H	1542	10.00	(+)	0.52	7.45	0.00	N/A	N/A
			693	10.00	(*) ROAD/PARKING	2.17	6.88	0.15	45.13	13.94
			76	10.00	(B) INTERSECTION	2.99	6.61	0.81	8.18	3.70

NORTHVILLE TWP POLICE DEPT (123584) LUMINAIRE SCHEDULE							
TYP	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LLF	QTY
A1		STERNER LIGHTING 1x13 (1) EXEC-RT25-60L-4K-3	(1) NVSL219BT R70	14735	MOUNT @ 20'-0 ABOVE GRADE DIMMABLE BALLAST	1.00	5
A2		STERNER LIGHTING 1x13 BL (1) EXEC-RT25-60L-4K-3-BC	(1) NVSL219BT R70	11393	MOUNT @ 20'-0 ABOVE GRADE DIMMABLE BALLAST	1.00	10
A3		STERNER LIGHTING 1x14 (1) EXEC-RT25-60L-4K-4	(1) NVSL219BT R70	14693	MOUNT @ 20'-0 ABOVE GRADE DIMMABLE BALLAST	1.00	3
A5		STERNER LIGHTING 1x15M (1) EXEC-RT25-60L-4K-5M	(1) NVSL219BT R70	11598	MOUNT @ 20'-0 ABOVE GRADE DIMMABLE BALLAST	1.00	3
B3H		STERNER LIGHTING 2x14 (2) EXEC-RT25-60L-4K-4	(2) NVSL219BT R70	14693	MOUNT @ 26'-0 ABOVE GRADE DIMMABLE BALLASTS	1.00	2
C4		STERNER LIGHTING 2x14 BL (2) EXEC-RT25-60L-4K-4-BC	(2) NVSL219BT R70	12465	MOUNT @ 20'-0 ABOVE GRADE DIMMABLE BALLASTS	1.00	1
DC3		STERNER LIGHTING 2x14 (2) EXEC-RT25-60L-4K-4	(2) NVSL219BT R70	14693	MOUNT @ 20'-0 ABOVE GRADE DIMMABLE BALLASTS; DIMMED TO 50%	0.50	1

AREA SUMMARY SCHEDULE					
AREA NAME	I/O	DIMENSIONS	LUMS / (ASMS)	WATTS / SQ FT	QTY
SITE	OUT	736.80x625.10Ft	(A1) (5) (A2) (10) (A3) (3) (A5) (3) (B3H) (2) (C4) (1) (DC3) (1)	0.02	1



TYPICAL LUMINAIRE WIRING DIAGRAM

NOTES:
- GROUND WIRE TO CONNECT TO A GROUND ROD AT EACH LIGHT POLE.
- GROUND WIRE TO BE INCLUDED TO EACH LIGHT.
- USE #6 THHN/THWN FOR GROUND WIRE

BY	MARK	REVISIONS	DATE
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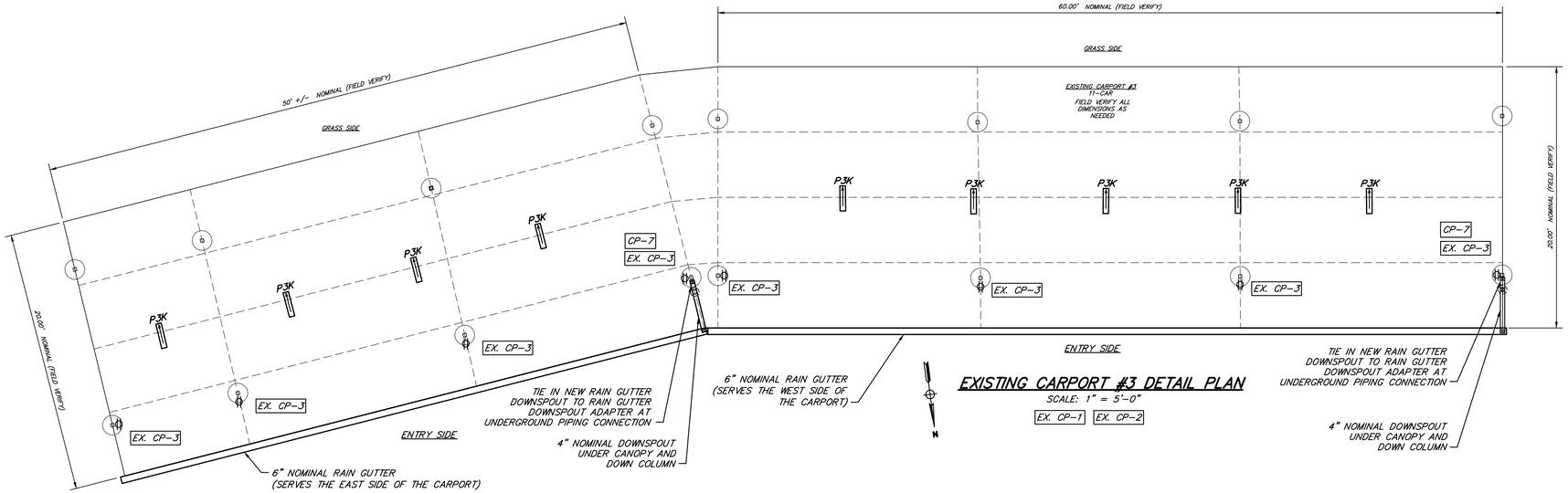
PROJECT NO. 123584SG2016

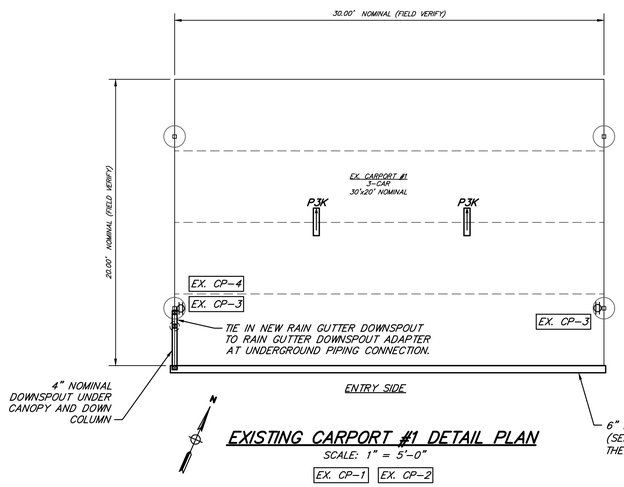
STDS.
SHEET 9 OF 12
DATE JULY, 2016
SCALE 1" = 30'
FILE NO. D-5236-9
C 7



EXISTING CARPORT #3 DETAIL PLAN

SCALE: 1" = 5'-0"

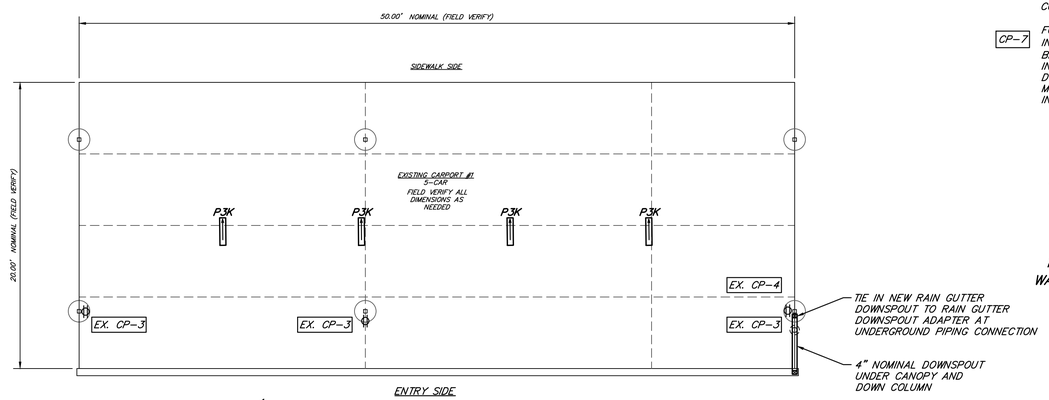
EX. CP-1 EX. CP-2



EXISTING CARPORT #1 DETAIL PLAN

SCALE: 1" = 5'-0"

EX. CP-1 EX. CP-2



EXISTING CARPORT #2 DETAIL PLAN

SCALE: 1" = 5'-0"

EX. CP-1 EX. CP-2

EXISTING CARPORT KEYNOTES:

ALL EXISTING CARPORT WORK DESCRIBED BELOW MUST BE SUBCONTRACTED BY THE PRIME CONTRACTOR, AND ARE NOT INCLUDED AS PART OF THE NEW CARPORT WORK.

EX. CP-1 THE PAINTING CONTRACTOR MUST RUST-TREAT ALL VERTICAL COLUMNS, HORIZONTAL BEAMS AND PURLINS (3) EXISTING CARPORTS: EX. CARPORT #1, EX. CARPORT #2, EX. CARPORT #3.APPLY 3-STEP POR-15 CLEANER-DEGREASER, METAL PREP ZINC PHOSPHATE COATING, AND POR-15 RUST-PREVENTIVE COATING.

EX. CP-2 THE PAINTING CONTRACTOR SHALL REPAINT ALL CARPORTS (COLUMNS, HORIZONTAL STRUCTURES, UNDERSIDE AND TOP SIDE OF ROOF) TO MATCH THE NEW CARPORT COLOR. COORDINATE THE EXACT DARK-BRONZE COLOR WITH THE CARPORT CONTRACTOR. THE NEW CARPORT COLOR FINISH MUST BE COMPATIBLE WITH POR-15 RUST PREVENTIVE COATING.

EX. CP-3 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW LIGHTING AND POWER IN EACH OF THE EXISTING CARPORTS. INSTALL DUPLEX GFCI 20A RECEPTACLE WITH IN-USE WEATHERPROOF COVER WHERE SHOWN.

EX. CP-4 FOR EX. CARPORT #1, #2, AND #3, THE PRIME CONTRACTOR MUST SUBCONTRACT THE INSTALLATION OF NEW COMMERCIAL / INDUSTRIAL 0.040 ALUMINUM GUTTERS 6" NOMINAL RAIN GUTTER WITH 4" NOMINAL DOWNSPOUT, WITH DARK BRONZE FINISH (MATCHING CARPORT COLOR) FOR EACH NEW (AND EXISTING CARPORT). THE GUTTER SHALL INCLUDE ALL NECESSARY HORIZONTAL AND VERTICAL PIPING, ELBOWS, TRANSITIONS AND ELBOWS TO TIE INTO DOWNSPOUT ADAPTER CONNECTED TO SLEEVED UNDERGROUND CORRUGATED PLASTIC PIPE. GUTTER SYSTEM MANUFACTURED BY S.A.F. PERIMETER SYSTEMS OR EQUAL. SEE SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.

NEW CARPORT KEYNOTES:

CP-1 THE NEW CARPORTS SHALL BE MANUFACTURED AND CONSTRUCTED BY THE CARPORT CONTRACTOR. THE PRIME CONTRACTOR SHALL SUBCONTRACT THE CARPORT CONTRACTOR, AND SHALL COORDINATE THE FINAL CARPORT DESIGN AND INSTALLATION.

CP-2 THE FINAL DESIGN, CONSTRUCTION, MATERIALS, DIMENSIONS, ETC., MUST BE DETERMINED BY THE CARPORT CONTRACTOR. CARPORT DRAWINGS AND NOTES LISTED HERE ARE SCHEMATIC IN NATURE ONLY FOR BIDDING PURPOSES. THE CARPORT MANUFACTURER MUST PROVIDE AND CONSTRUCT ALL NEW CARPORTS.

CP-3 CARPORT #4 MUST BE A 4-CAR CARPORT WITH NOMINAL 9'-0" WIDE, BY 18'-0" DEEP PARKING AREAS.

CP-4 CARPORT #5 SHALL BE A 6-CAR CARPORT WITH NOMINAL 9'-0" WIDE, BY 18'-0" DEEP PARKING AREAS. THE CARPORT CONTRACTOR SHALL MAXIMIZE THE CARPORT PARKING SPACE WIDTH, AND IF POSSIBLE WIDEN UP TO 10'-0" IF SPACE ALLOWS.

CP-5 THE FINAL CARPORT COLUMN DIMENSIONS AND LOCATIONS SHALL BE COORDINATED WITH THE SITE CONTRACTOR, CURBS, TREES, ETC. THE MINIMUM CARPORT HEIGHT SHALL BE 7'-0" CLEAR.

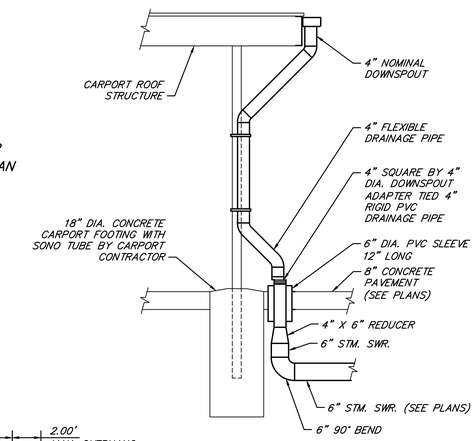
CP-6 THE ELECTRICAL CONTRACTOR MUST COORDINATE THE INSTALLATION OF THE CARPORT LIGHTING AND POWER WITH THE CARPORT CONTRACTOR. INSTALL DUPLEX GFCI 20A RECEPTACLE WITH ALL-WEATHER, WHILE-IN-USE COVER WHERE SHOWN.

CP-7 FOR CARPORT #5, THE PRIME CONTRACTOR MUST SUBCONTRACT THE INSTALLATION OF NEW COMMERCIAL / INDUSTRIAL 0.040 ALUMINUM GUTTERS 6" NOMINAL RAIN GUTTER WITH 4" NOMINAL DOWNSPOUT, WITH DARK BRONZE FINISH (MATCHING CARPORT COLOR) FOR EACH NEW (AND EXISTING CARPORT). THE GUTTER SHALL INCLUDE ALL NECESSARY HORIZONTAL AND VERTICAL PIPING, ELBOWS, TRANSITIONS AND ELBOWS TO TIE INTO DOWNSPOUT ADAPTER CONNECTED TO SLEEVED UNDERGROUND CORREGATED PLASTIC PIPE. GUTTER SYSTEM MANUFACTURED BY S.A.F. PERIMETER SYSTEMS OR EQUAL. SEE SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.

0 2.5 5 10

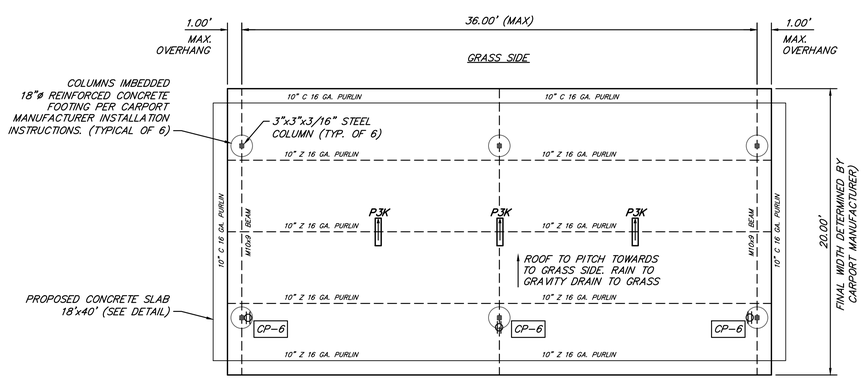
SCALE: 1" = 5'

SECTION 11
T.01 S. - R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN



CARPORT COLUMN AND GUTTER DETAIL

SCALE: 1/2" = 1'-0"



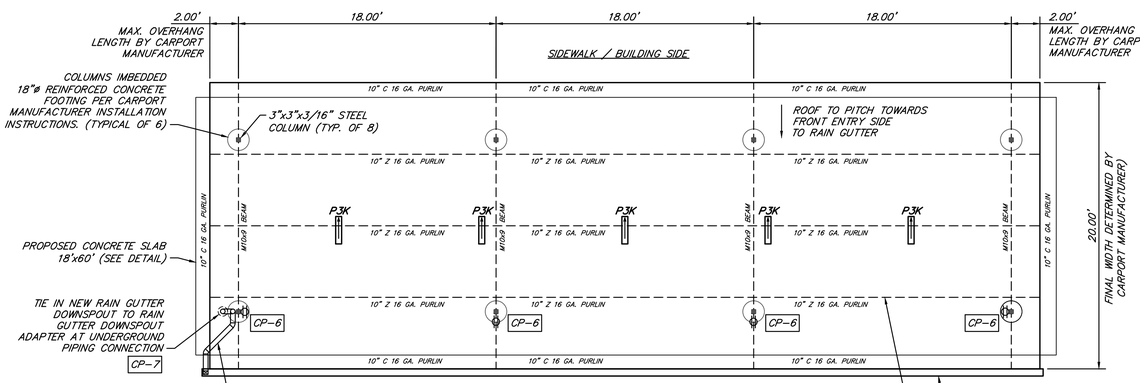
CARPORT #4
4-CAR MINIMUM PARKING SPACE WIDTH = 9'-0" (MAXIMIZE)
MINIMUM PARKING SPACE DEPTH = 18'-0"
TYPICAL COLUMN SPACING 18'-0" BY 12'-0"
MINIMUM HEIGHT = 7'-0"
ROOF TO SLOPE TO WEST (ON TO GRASS DO NOT SLOPE ONTO ASPHALT)

CARPORT #4 DETAIL PLAN

SCALE: 1" = 5'-0"

CP-1 CP-2 CP-3 CP-5

NOTE:
CARPORT #4 DOES NOT REQUIRE GUTTERS AND MUST GRAVITY DRAIN TO GRASS



CARPORT #5
6-CAR MINIMUM PARKING SPACE WIDTH = 9'-0" (MAXIMIZE)
MINIMUM PARKING SPACE DEPTH = 18'-0"
TYPICAL COLUMN SPACING 18'-0" BY 12'-0"
MINIMUM HEIGHT = 7'-0" ROOF TO SLOPE EAST TO WEST

CARPORT #5 DETAIL PLAN

SCALE: 1" = 5'-0"

CP-1 CP-2 CP-4 CP-5

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CARPORT PLANS
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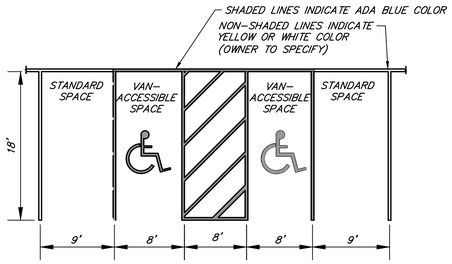
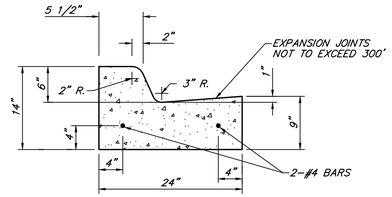
DR. BY: ASW/KMT	APP. BY: DWH	
STDS.	SHEET 10 OF 12	C
DATE JULY, 2016	FILE NO. D-5236-10	8
SCALE 1" = 30'		



LINES SHALL BE 4" WIDE, WATERBORNE-TYPE PAINTED STRIPES. MATERIALS SHALL BE AS APPROVED BY MDOT.

PARKING SPACES DETAIL

NOT TO SCALE

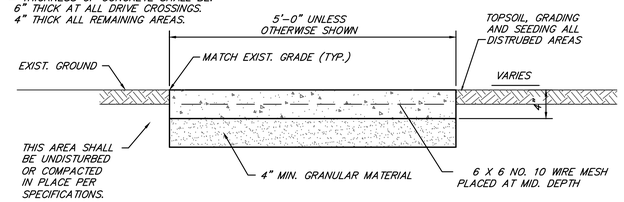


CONCRETE CURB AND GUTTER DETAIL STANDARD PAN

NOT TO SCALE

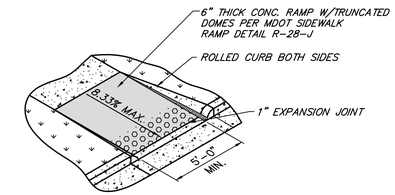
SIDEWALK CONSTRUCTION NOTES:

PROVIDE EXPANSION JOINTS:
- AROUND STRUCTURES LOCATED WITHIN THE SIDEWALK.
- AT SLAB ADJACENT TO DRIVEWAY CROSSING.
- AT SPACING AS SPECIFIED.
- AT SAWCUT JOINTS
- THICKNESS OF CONCRETE SHALL BE:
  6" THICK AT ALL DRIVE CROSSINGS.
  4" THICK ALL REMAINING AREAS.



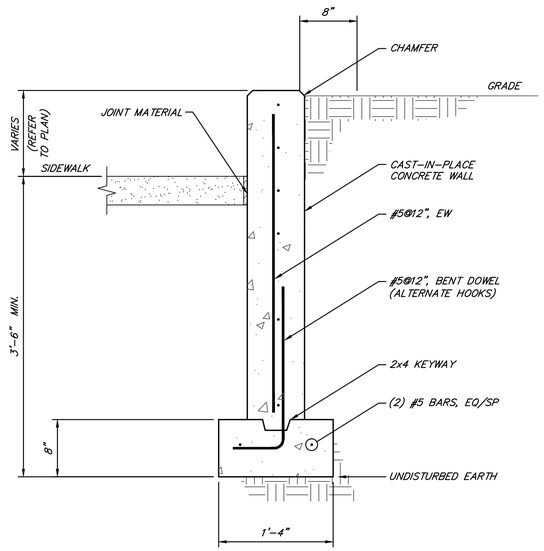
CONCRETE SIDEWALK

NOT TO SCALE



BARRIER-FREE SIDEWALK RAMP – MDOT TYPE I

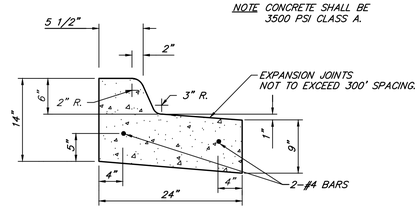
NOT TO SCALE



KNEE WALL DETAIL

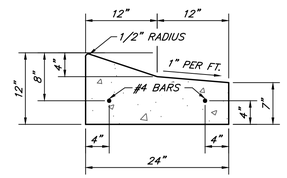
SCALE: 1" = 1'-0"

NOTE CONCRETE SHALL BE 3500 PSI CLASS A.



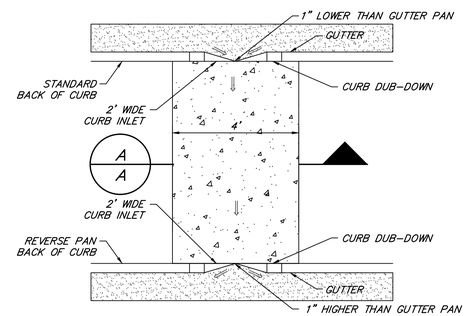
CONCRETE CURB AND GUTTER DETAIL REVERSE PAN

NOT TO SCALE



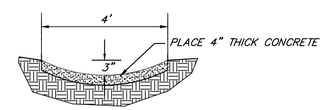
CONCRETE CURB AND GUTTER DETAIL MOUNTABLE REVERSE PAN

NOT TO SCALE



CURB OPENING

NOT TO SCALE

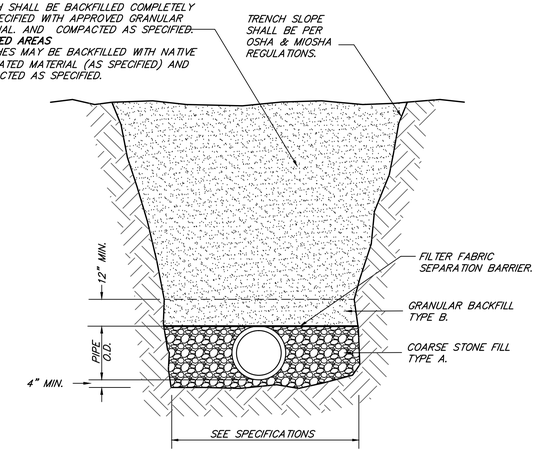


A/A CONCRETE SPILLWAY – SECTION

CONCRETE SPILLWAY

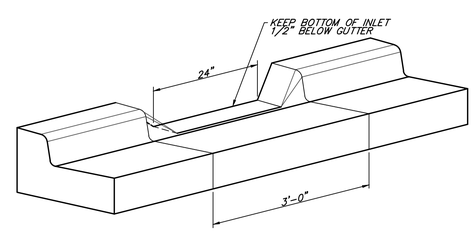
NOT TO SCALE

UNDER PAVED AREAS & WITHIN 1:1 INFLUENCE OF PAVED AREA
TRENCH SHALL BE BACKFILLED COMPLETELY AS SPECIFIED WITH APPROVED GRANULAR MATERIAL AND COMPACTED AS SPECIFIED.
UNPAVED AREAS
TRENCHES MAY BE BACKFILLED WITH NATIVE EXCAVATED MATERIAL (AS SPECIFIED) AND COMPACTED AS SPECIFIED.



TRENCH DETAIL FOR PVC/HDPE PIPE

NOT TO SCALE



CURB OPENING DETAIL

NOT TO SCALE

BY	MARK	REVISIONS	DATE

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SITE DETAILS
POLICE HEADQUARTERS
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

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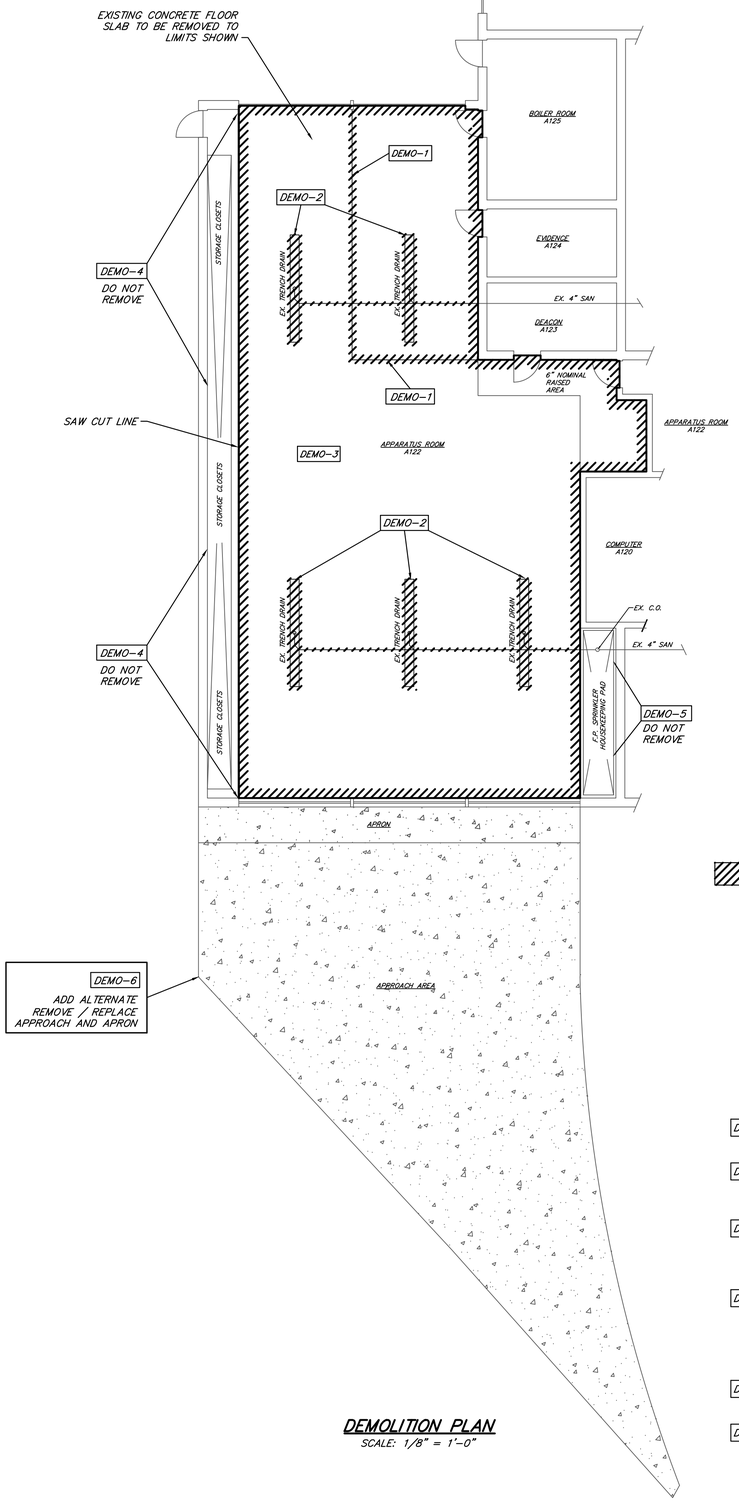
DR. BY: AJS APP. BY: DWH
PROJECT NO. 123584SG2016
STDS.
SHEET 11 OF 12
C 9
DATE JULY, 2016
SCALE N/A
FILE NO. D-5236-11



DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

EQUIPMENT SCHEDULE

TD-1
MODULAR STAINLESS STELL TRENCH DRAIN SYSTEM.
J.R. SMITH 6" WIDE MODULAR SHALLOW STAINLESS STEEL TRENCH DRAIN SYSTEM WITH HEAVY DUTY, DIN 19580 LOAD CLASS C-56,000 LBS, 162 PSI COMMERCIAL PNEUMATIC TIRE TRAFFIC PATTERN.
TOTAL LENGHT = 10'-0" (COMPRISED OF (3) 40" NOMINAL SECTIONS.
4" NO HUB CONNECTION. SEE JR SMITH FIGURE 9665 FOR CUT SHEET.
INCLUDE ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION.

GARAGE AREA CONSTRUCTION NOTES:

1. INSTALL NEW SANITARY PIPING AS SHOWN, MINIMIZING SLOPE AT 1/8" PER FOOT MAXIMUM, TO TIE INTO EXISTING PIPE. FIELD VERIFY AND MATCH EXISTING PIPE MATERIAL. INSTALL PER SPECIFICATIONS AND 2012 MPC.
2. INSTALL FIVE (5) NEW HEAVY SERVICE TRENCH DRAIN SYSTEMS WITH SHALLOW STAINLESS STEEL TRENCH AND GRATE. SEE EQUIPMENT SCHEDULE THIS SHEET.
3. INSTALL NEW 8", 4000 PSI, HEAVY WEIGHT CONCRETE SLAB ON GRADE. PROVIDE ALL NECESSARY REGRADING AND COMPACTION FOR PROPER INSTALLATION. SLOPE TO FLOOR DRAINS MINIMUM 1/8" PER FOOT. SEE CAST-IN-PLACE CONCRETE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. FINISH ALL NEW CONCRETE FLOOR SURFACES WITH PREMIUM PERFORMANCE EPOXY CONCRETE COATING WITH NON-SLIP ADDITIVE: SHERWIN WILLIAMS 33 EPOXY PRIMER/SEALER WITH 650 SL/RC SELF LEVELING TOP COAT. PROVIDE COLOR SWATCH WITH SUBMITTAL. REPAINT ALL EXISTING CONCRETE SURFACES EXCEPT THOSE UNDER THE EXISTING STORAGE CLOSET. AT CHANGE IN FLOOR HEIGHT AND AT WALL, PAINT VERTICAL RISER OF ALL STEPPED CONCRETE SURFACES. PAINT RAISED FIRE PROTECTION RISER AREA, AND UNDER FIRE PROTECTION RISER. PROTECT ALL FIRE PROTECTION PIPING.
5. SEE SPECIFICATIONS FOR CONTRACTION/EXPANSION JOINTS, ISOLATION JOINTS (AT BUILDING FOOTINGS), AND CONSTRUCTION JOINTS.
6. ADD ALTERNATE ONLY: INSTALL NEW 8", 4000 PSI, HEAVY WEIGHT CONCRETE APPROACH AND APRON IN AREA SHOWN.

KEY

INDICATES ITEM TO BE DEMOLISHED

GARAGE AREA DEMOLITION NOTES:

ALL BUILDING STRUCTURES, MATERIALS, EQUIPMENT, ETC., TAGGED WITH A PRECEDING "EX." ARE EXISTING. ALL AREAS SHOWN AS HATCHED SHALL BE DEMOLISHED PER THE NOTES BELOW.

DEMO-1 REMOVE EXISTING CHAIN-LINK FENCING THAT ENCLOSES THE NORTHEAST APPARATUS BAY.

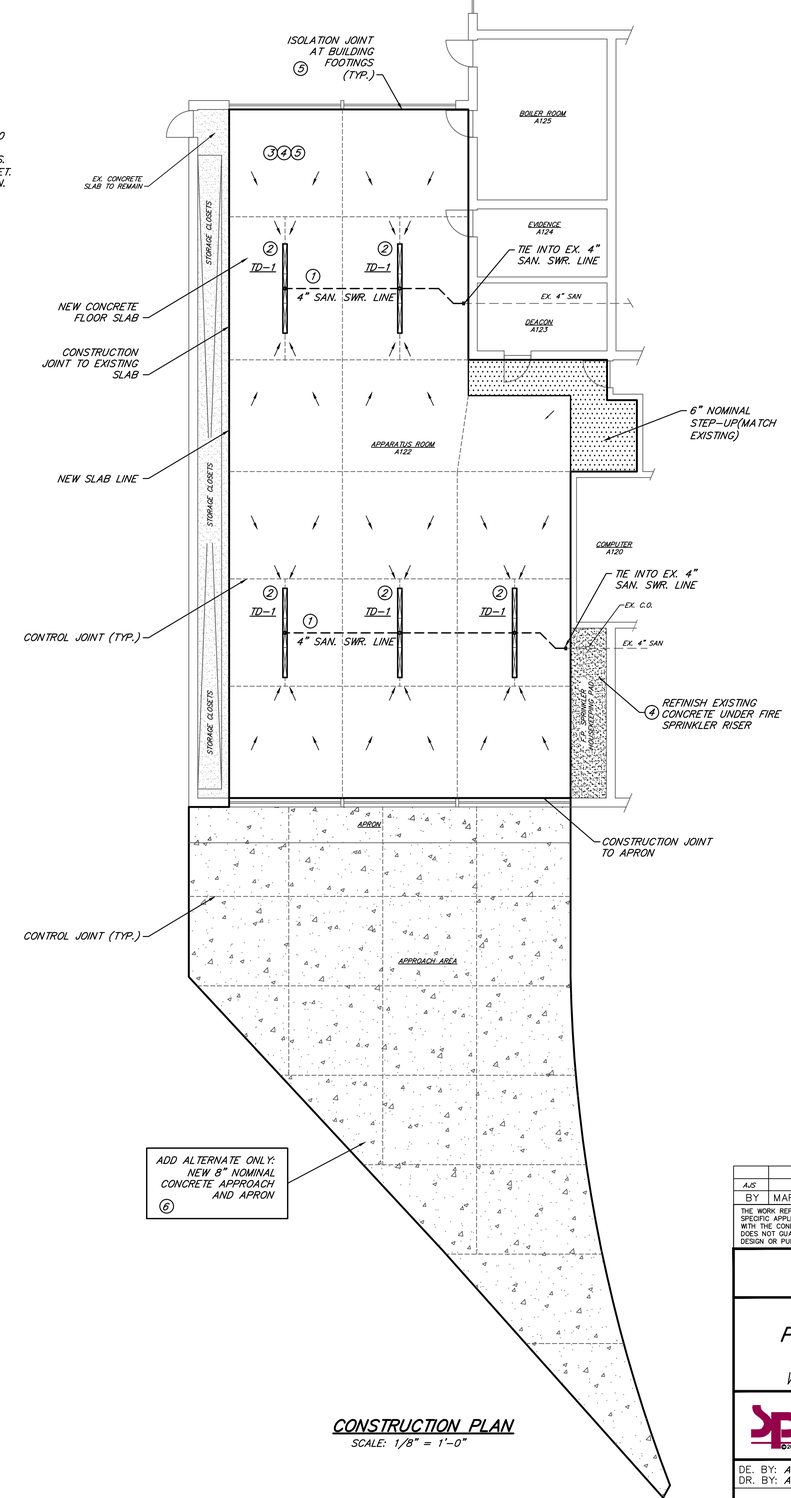
DEMO-2 REMOVE ALL EXISTING TRENCH DRAIN BASINS, TRENCH GRATES, AND SECTIONS OF THE SANITARY PIPING SHOWN AS HATCHED.

DEMO-3 THE EXISTING GARAGE APPARATUS BAY CONCRETE, FLOOR SHALL BE REMOVED AND REPLACED WITH NEW CONCRETE FLOOR. VERIFY IN FIELD THE EXISTING DEPTH (ASSUME MINIMUM 8" NOMINAL) AND PREPARE TO REPLACE WITH EQUAL CONCRETE DEPTH.

DEMO-4 IMPORTANT NOTE: THE TOWNSHIP DOES NOT WANT THE EXISTING STORAGE CLOSETS LOCATED ALONG THE WEST SIDE OF THE GARAGE AREA TO BE REMOVED, THEREFORE APPROXIMATELY 2"-6" OF EXISTING CONCRETE GARAGE FLOOR MUST NOT BE REMOVED. SAWCUT ALONG LINE WHERE SHOWN; FIELD VERIFY THE EXACT WIDTH REQUIRED TO REMOVE TO COMPLETE WORK WITHOUT STORAGE CLOSET REMOVAL.

DEMO-5 DO NOT REMOVE THE RAISED FLOOR AREA THAT SUPPORTS THE EXISTING FIRE PROTECTION SPRINKLER PIPING AND CONTROLS.

DEMO-6 ADD ALTERNATE ONLY: SEE BID SHEET. REMOVE AND REPLACE THE SOUTH SIDE EXISTING EXTERIOR CONCRETE APPROACH AND APRON.



CONSTRUCTION PLAN

SCALE: 1/8" = 1'-0"

N

SECTION 11
T.01 S. - R.08 E.
NORTHVILLE TOWNSHIP
WAYNE COUNTY, MICHIGAN

BY	MARK	REVISIONS	DATE
AJS		ISSUED FOR BIDDING	07-25-2016

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SHEET 12 OF 12
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SCALE AS NOTED
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